

FUJI Power Semiconductors

IGBT/SiC Devices Selection Guide



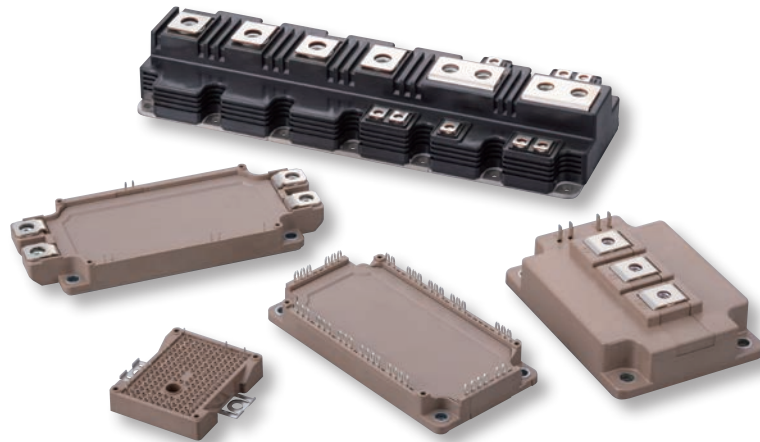
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Note: PrimePACK™ is registered trademark of Infineon Technologies AG, Germany.



Features of IGBT Module X Series

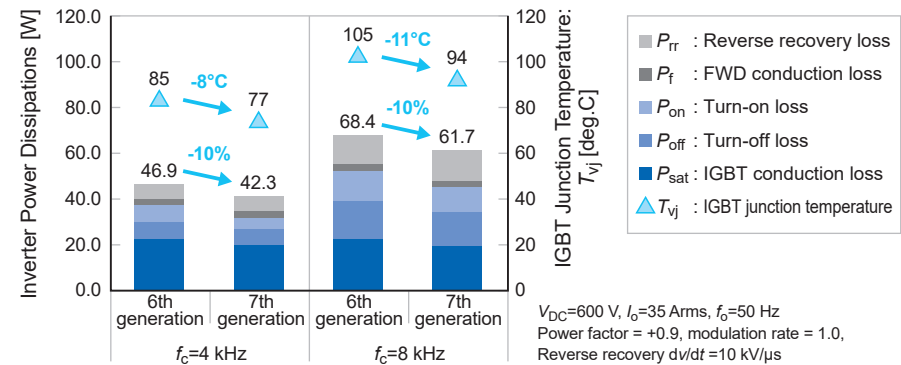


1. Low loss

The module has been optimized by thinning the thickness and applying the finer structure of the IGBT chip and diode chip that makes up the module. This reduces power dissipations during inverter operation compared with previous products (our 6th generation V series).



Reduces inverter power dissipation by 10% and IGBT Junction temperature by 11°C
(Comparison with the 6th Generation V Series (75 A), at $f_c = 8$ kHz)

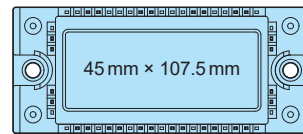
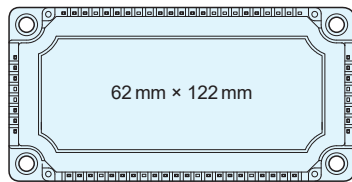


2. Miniaturization

The application of the newly developed insulating substrate has improved the heat dissipation of the module. A smaller footprint of about 36% has been achieved by reducing power dissipation and suppressing heat generation compared with the previous product.

Application example)

36% reduction



75 A (6th Generation V Series)

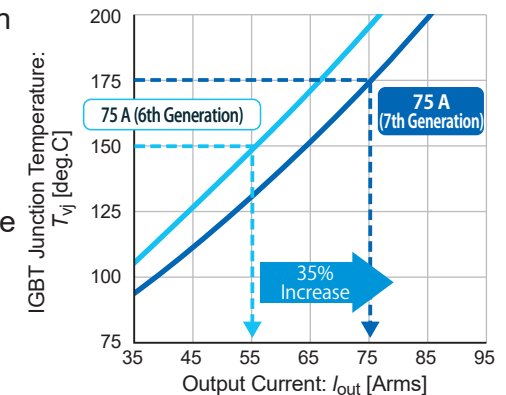
75 A (7th Generation X Series)

3. High-temperature operation

Achieves continuous operation at 175 °C through chip optimization and improved reliability and heat resistance of package.

Increased output current by $T_{vj(op)}=175^\circ\text{C}$

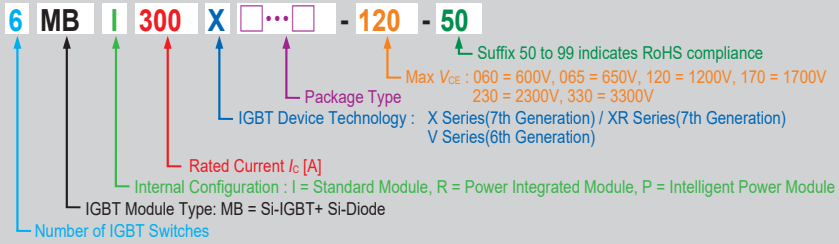
- 35% more output current than the previous generation
- ΔT_{vj} power cycle capability improvement (twice as high as before)



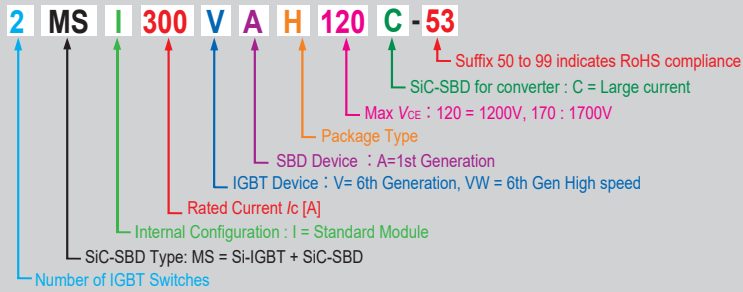
Number of Switches		Page	Internal Configuration					Max V_{CE} (V_{RRM})						Rated Current					
Products Category	Standard Module		Power Integrated Module	Intelligent Power Module	3-level Module	Discrete IGBT	Discrete SiC-SBD	600V	650V	1200V	1700V	2300V	3300V	$\leq 50A$	$>50A \leq 150A$	$>150A \leq 300A$	$>300A \leq 600A$	$>600A \leq 1200A$	$>1200A$
		7						Small PIM	9		✓			✓	✓	✓			
PIM EconoPIM™	10			✓			✓	✓	✓				✓	✓					
	11			✓				✓	✓	✓				✓	✓				
6	6-Pack EconoPACK™ EconoPACK™+	12					✓		✓				✓	✓	✓				
		13	✓				✓		✓	✓			✓	✓	✓	✓			
2	Standard 2-Pack	14					✓	✓	✓	✓				✓	✓	✓			
		15	✓						✓	✓						✓	✓	✓	
1	Standard 1-Pack	16	✓						✓	✓						✓	✓	✓	
	Chopper	16	✓				✓		✓					✓	✓	✓			
1,2	HPnC	17	✓						✓	✓		✓				✓	✓		
	PrimePACK™	18,19	✓						✓	✓		✓				✓	✓	✓	
4,12	T/I-type NPC 3-level	20				✓		✓	✓				✓	✓	✓	✓	✓		
6,7	Small IPM IPM	21					✓	✓	✓				✓	✓					
		22,23					✓	✓	✓				✓	✓					
		24			✓		✓	✓	✓				✓	✓	✓				
		25					✓	✓	✓					✓	✓	✓			
2	Hybrid SiC Module	26	✓						✓	✓						✓	✓		
	All-SiC Module	27	✓						✓	✓						✓	✓		
1	Discrete IGBT	28					✓	✓	✓				✓	✓					
-	SiC-SBD	29						✓	✓	✓			✓						

Note: EconoPIM™, EconoPACK™, EconoPACK™+, PrimePACK™ is registered trademark of Infineon Technologies AG, Germany.

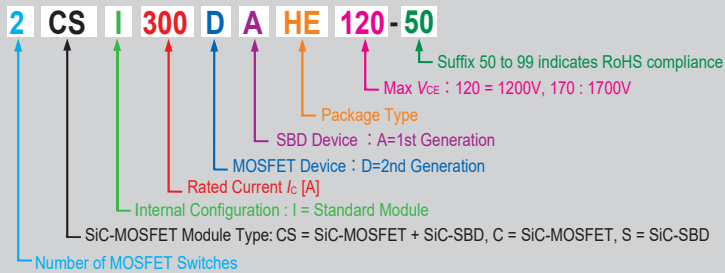
IGBT Module Production Number



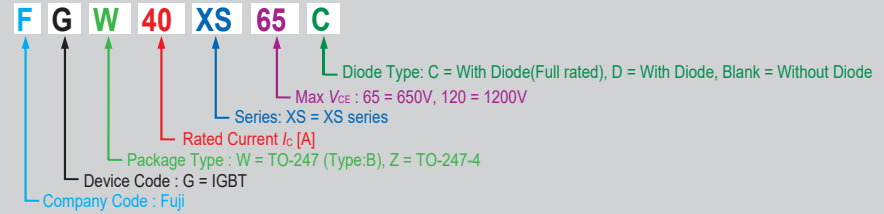
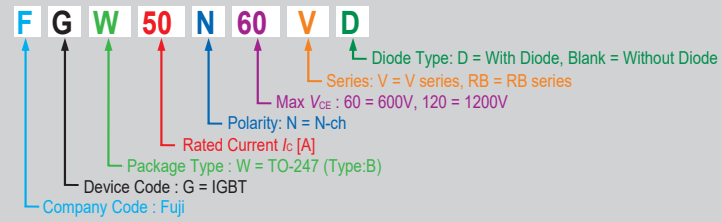
IGBT Hybrid Module with SiC-SBD Production Number



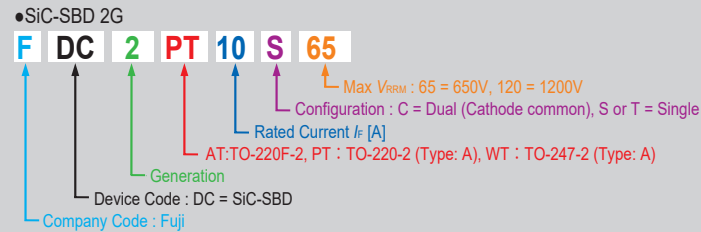
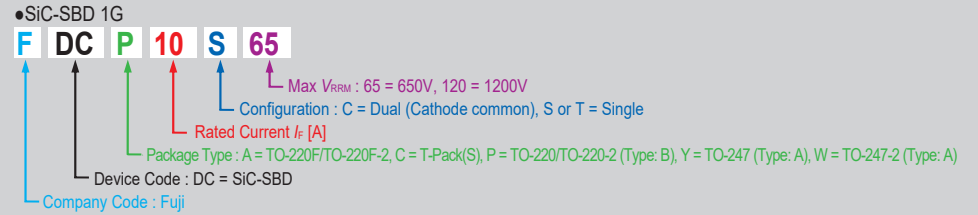
All-SiC Module Production Number



Discrete IGBT Production Number



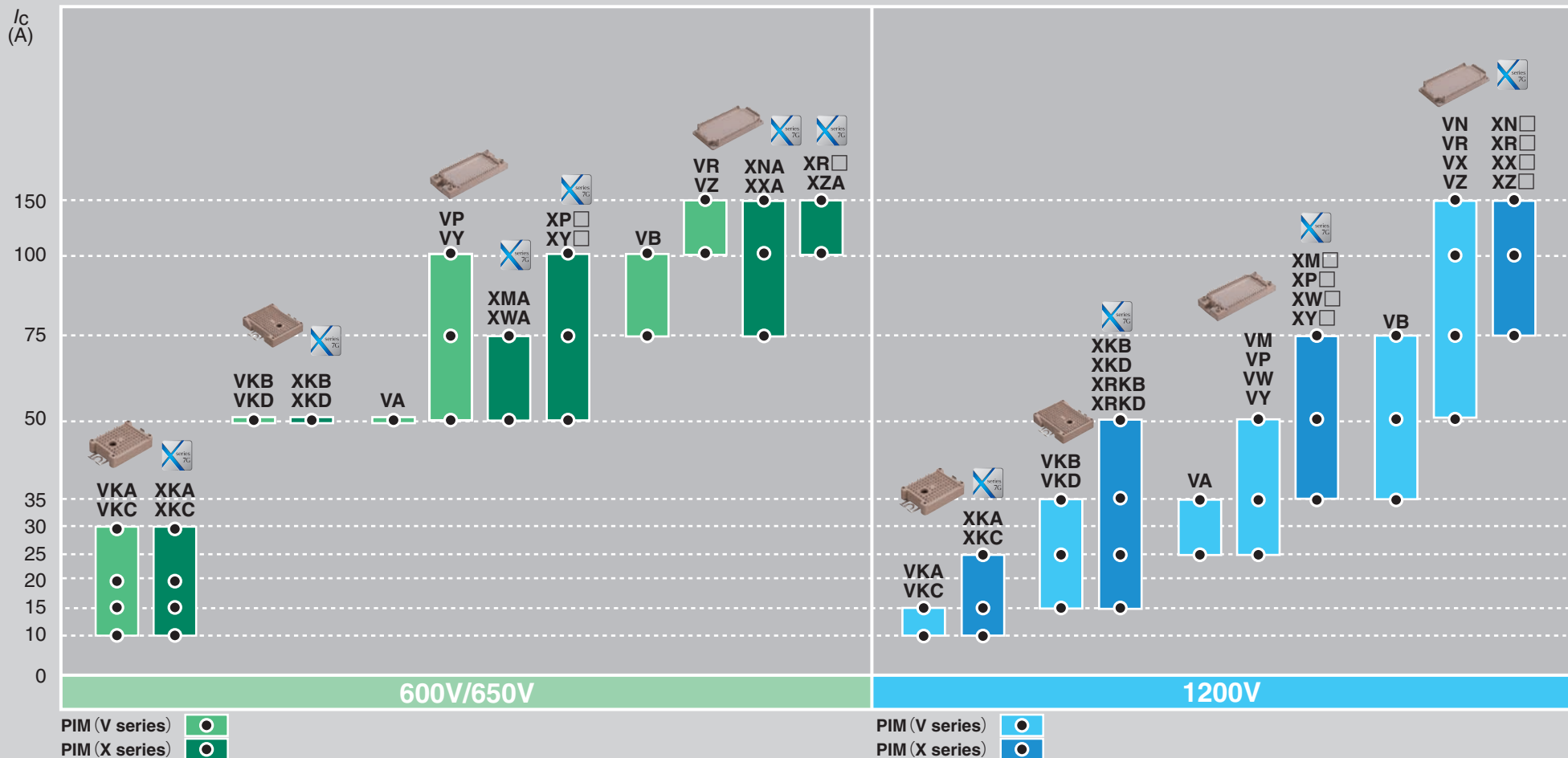
SiC Schottky-Barrier Diode Production Number



PIM (Power Integrated Modules) Products Map

7MBR	Ic	IGBT series & Package type				Size	Page	EconoPIM™
		V series		X series				
		Solder pins	Press fit pins	Solder pins	Press fit pins			
		VKC	VKA	XKC	XKA	33.8×62.8mm	9	
		VKD	VKB	XKD, XRKD	XKB, XRKB	56.7×62.8mm	9	
		VA, VM, VP	VW, VY	XM□, XP□	XW□, XY□	45×107.5mm	10,11	
		VB, VN, VR	VX, VZ	XN□, XR□	XX□, XZ□	62×122mm	10,11	

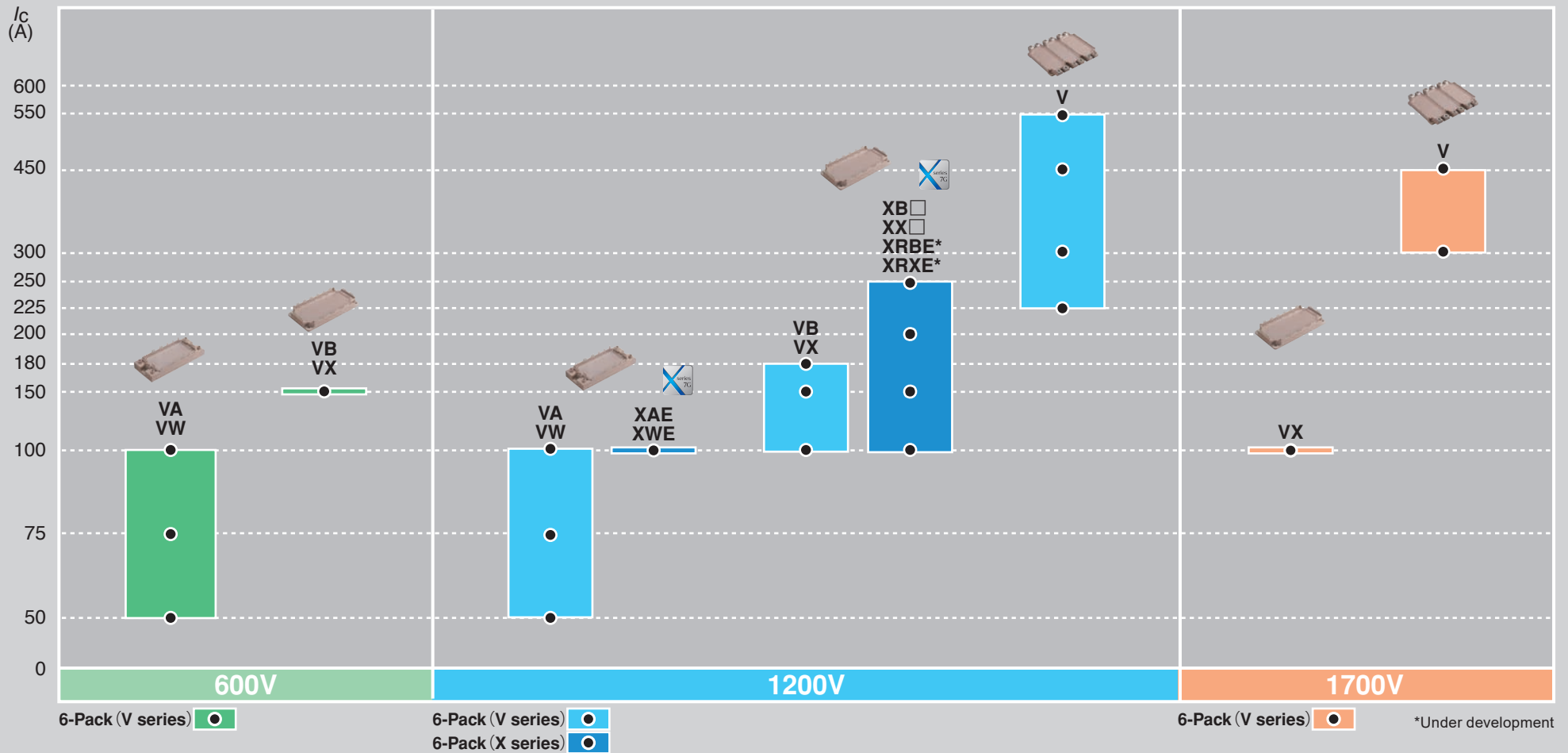
Note: EconoPIM™ is registered trademark of Infineon Technologies AG, Germany.



6-Pack Products Map

6MBI	Ic	IGBT series & Package type				Size	Page	
		V series		X series				
		Solder pins	Press fit pins	Solder pins	Press fit pins			
		VA	VW	XAE	XWE	45×107.5mm	12,13	EconoPACK™
		VB	VX	XB□, XRBE	XX□, XRXE	62×122mm	12,13	EconoPACK™
		V	-	-	-	150×162mm	13	EconoPACK™+

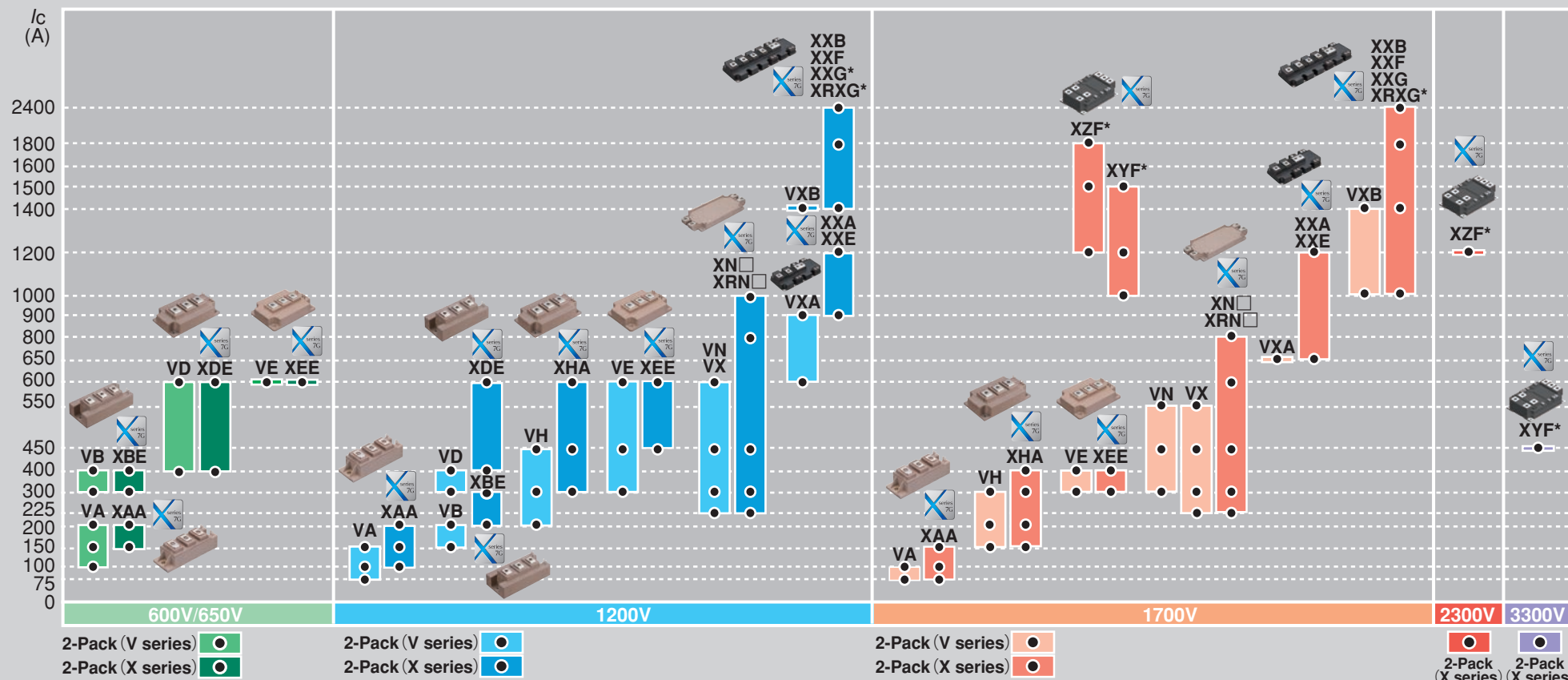
Note: EconoPACK™ and EconoPACK™+ are registered trademark of Infineon Technologies AG, Germany.



2-Pack Products Map

2MBI	Ic	IGBT series & Package type		Size	Page	
		V series	X series			
	VA	XAA		34×94mm	14	Standard Pack
	VB	XBE		45×92mm	14	
	VD, VH	XDE, XHA		62×108mm	14	
	VE	XEE		80×110mm	14	
	VN, VX	XN□, XRN□		62×150mm	15	
	-	XYF, XZF		100×140mm	17	HPnC
	VXA	XXA, XXE		89×172mm	18	PrimePACK™
	VXB	XXB, XXF, XXG, XRXG		89×250mm	18	

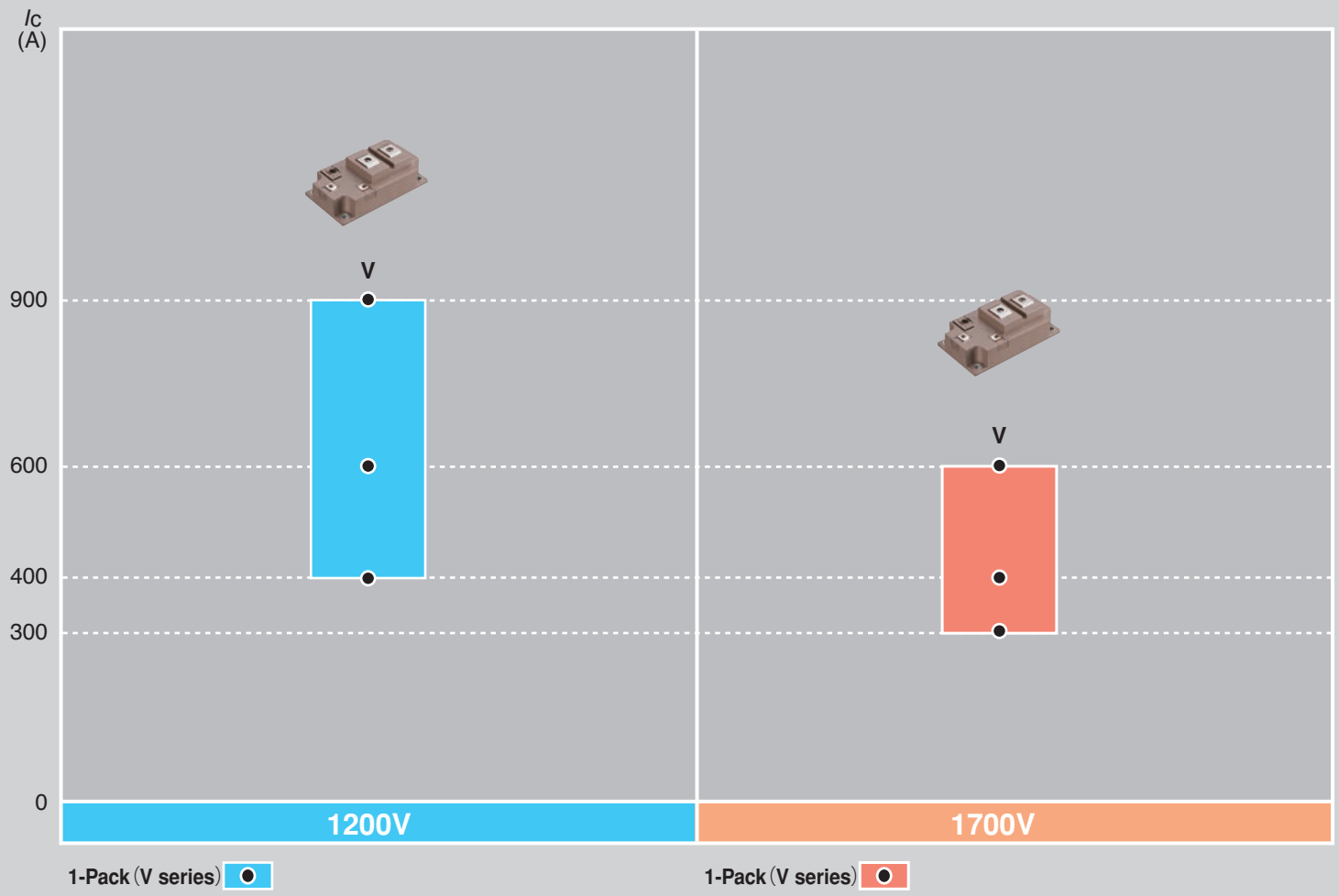
Note: PrimePACK™ is registered trademark of Infineon Technologies AG, Germany



*Under development

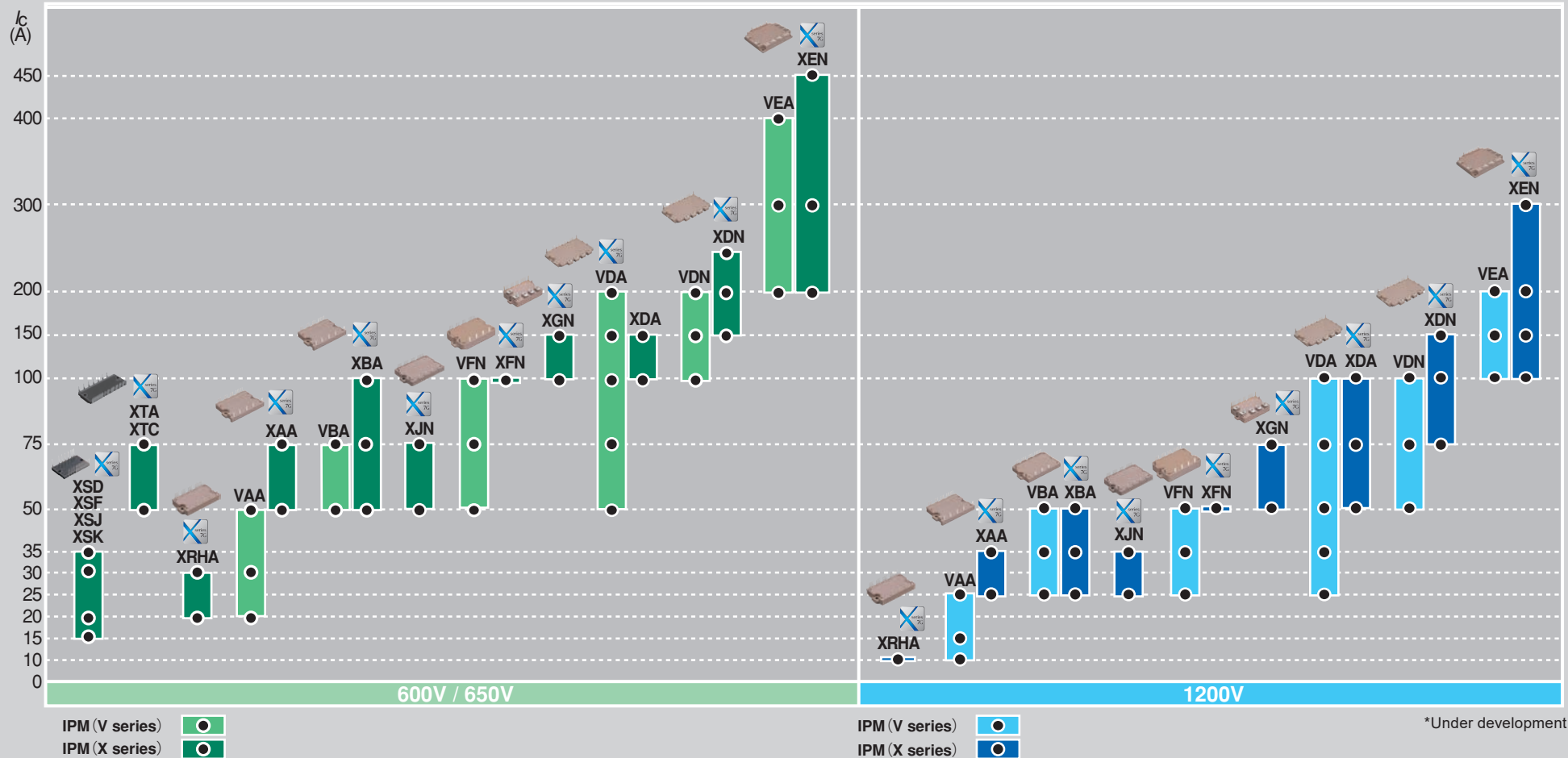
1-Pack Products Map

1MBI	Ic	IGBT series & Package type	Size	Page	Standard Pack
		V series			
		V	62×108mm	16	Standard Pack



IPM (Intelligent Power Modules) Products Map

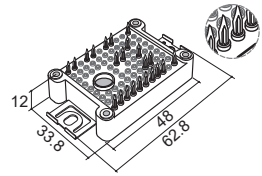
6/7MBP	Ic	IGBT series & Package type		Size	V series		X series		Page
		V series	X series		7 in 1	6 in 1	7 in 1	6 in 1	
-	-	-	XSD, XSF, XSJ, XSK	26×43mm	-	-	-	✓	21
-	-	-	XTA, XTC	31×79mm	-	-	-	✓	21
-	-	-	XRHA	36×70mm	-	-	-	✓	22
-	VAA	-	XAA	49.5×70mm	-	✓	-	✓	22
-	VBA	-	XBA	50.2×87mm	-	✓	-	✓	22
-	-	-	XJN	50.2×87mm	-	-	✓	-	22
-	VFN	-	XFN	55×90mm	✓	✓	✓	✓	23
-	-	-	XGN	55×90mm	-	-	-	✓	23
-	VDA, VDN	-	XDA, XDN	84×128.5mm	✓	✓	✓	✓	24
-	VEA	-	XEN	110×142mm	✓	✓	✓	✓	25



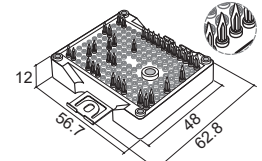
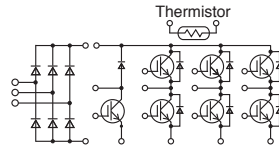
Small PIM (Power Integrated Modules)

Dimension[mm]

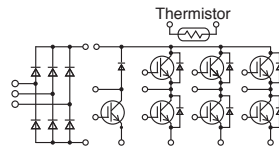
With NTC, Press fit pins



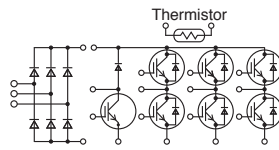
V: M726, X: M730



V: M727, X: M731

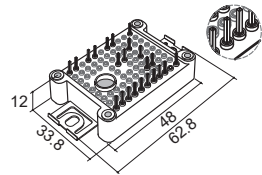


XKB, VKB

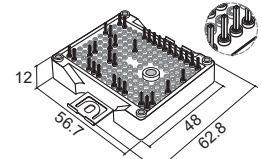
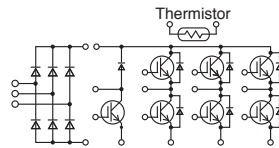


XRKB

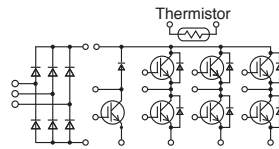
With NTC, Solder pins



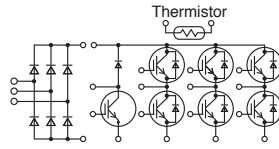
V: M728, X: M732



V: M729, X: M733



XKD, VKD

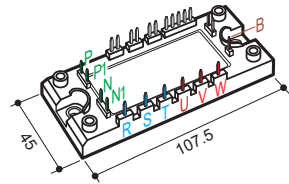


XRKD

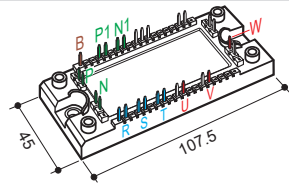
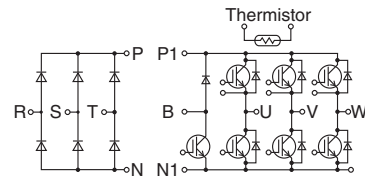
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	X series		V series		X series	V series
10A	7MBR10XKA065-50		7MBR10VKA060-50		7MBR10XKA120-50	7MBR10VKA120-50
15A	7MBR15XKA065-50		7MBR15VKA060-50		7MBR15XKA120-50	7MBR15VKA120-50
20A	7MBR20XKA065-50		7MBR20VKA060-50			
25A					7MBR25XKA120-50	
30A	7MBR30XKA065-50		7MBR30VKA060-50			
15A					7MBR15XKB120-50	7MBR15VKB120-50
25A					7MBR25XKB120-50	7MBR25VKB120-50
35A					7MBR35XKB120-50	7MBR35VKB120-50
50A	7MBR50XKB065-50		7MBR50VKB060-50		7MBR50XRKB120-50	
10A	7MBR10XKC065-50		7MBR10VKC060-50		7MBR10XKC120-50	7MBR10VKC120-50
15A	7MBR15XKC065-50		7MBR15VKC060-50		7MBR15XKC120-50	7MBR15VKC120-50
20A	7MBR20XKC065-50		7MBR20VKC060-50			
25A					7MBR25XKC120-50	
30A	7MBR30XKC065-50		7MBR30VKC060-50			
15A					7MBR15XKD120-50	7MBR15VKD120-50
25A					7MBR25XKD120-50	7MBR25VKD120-50
35A					7MBR35XKD120-50	7MBR35VKD120-50
50A	7MBR50XKD065-50		7MBR50VKD060-50		7MBR50XRKD120-50	

PIM (Power Integrated Modules) EconoPIM™

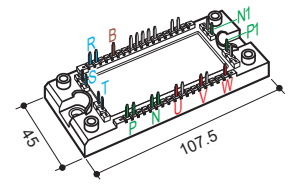
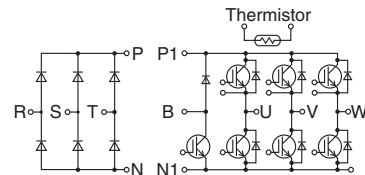
With NTC, Solder pins, PIM



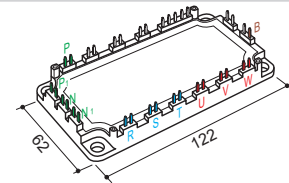
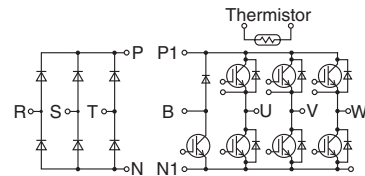
M711



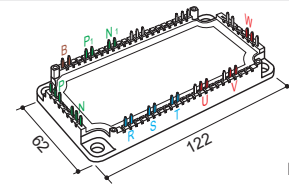
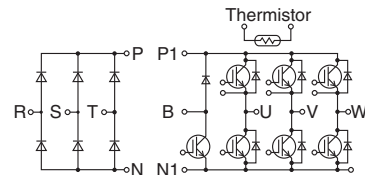
M719



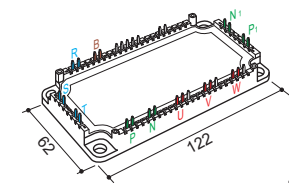
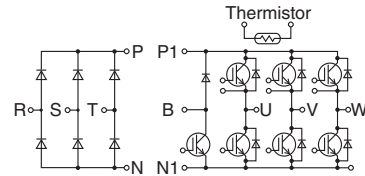
M719



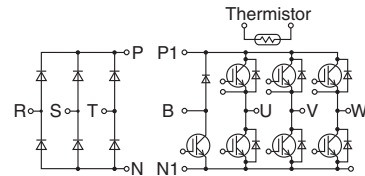
M712



M720



M720



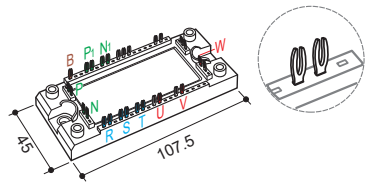
Ic	650V		600V		1200V	
	X series		V series		X series	V series
25A						7MBR25VA120-50
35A						7MBR35VA120-50
50A			7MBR50VA060-50			
25A						7MBR25VM120-50
35A					7MBR35XMA120-50	7MBR35VM120-50
50A	7MBR50XMA065-50				7MBR50XMA120-50	7MBR50VM120-50
75A	7MBR75XMA065-50				7MBR75XME120-50	
25A						7MBR25VP120-50
35A					7MBR35XPA120-50	7MBR35VP120-50
50A	7MBR50XPA065-50		7MBR50VP060-50		7MBR50XPA120-50	7MBR50VP120-50
75A	7MBR75XPA065-50		7MBR75VP060-50		7MBR50XPE120-50	
100A	7MBR100XPE065-50		7MBR100VP060-50		7MBR75XPE120-50	
35A						7MBR35VB120-50
50A						7MBR50VB120-50
75A			7MBR75VB060-50			7MBR75VB120-50
100A			7MBR100VB060-50			
50A						7MBR50VN120-50
75A	7MBR75XNA065-50				7MBR75XNA120-50	7MBR75VN120-50
100A	7MBR100XNA065-50				7MBR100XNA120-50	7MBR100VN120-50
150A	7MBR150XNA065-50				7MBR150XNE120-50	7MBR150VN120-50
50A						7MBR50VR120-50
75A					7MBR75XRA120-50	7MBR75VR120-50
100A	7MBR100XRA065-50		7MBR100VR060-50		7MBR100XRA120-50	7MBR100VR120-50
150A	7MBR150XRA065-50		7MBR150VR060-50		7MBR100XRE120-50	
	7MBR150XRE065-50				7MBR150XRE120-50	7MBR150VR120-50

Note: EconoPIM™ is registered trademark of Infineon Technologies AG, Germany.

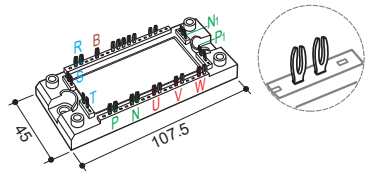
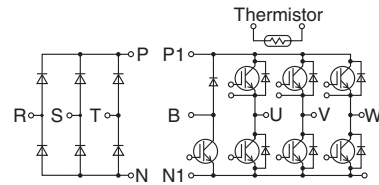
PIM (Power Integrated Modules) EconoPIM™

Dimension[mm]

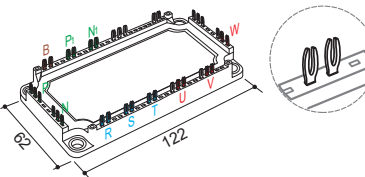
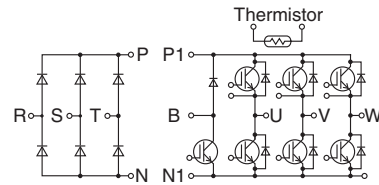
With NTC, Press fit pins, PIM



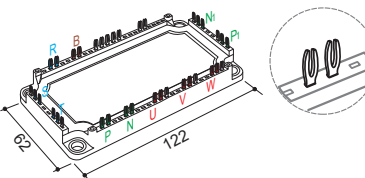
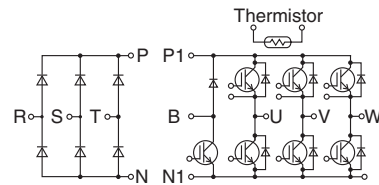
M721



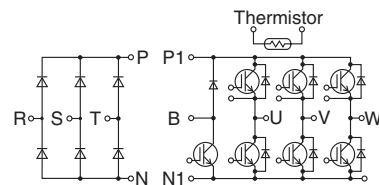
M721



M722



M722



Ic	650V		600V		1200V	
	X series		V series		X series	V series
25A						7MBR25VW120-50
35A					7MBR35XWA120-50	7MBR35VW120-50
50A	7MBR50XWA065-50				7MBR50XWA120-50	7MBR50VW120-50
75A	7MBR75XWA065-50				7MBR75XWE120-50	
25A						7MBR25VY120-50
35A					7MBR35XYA120-50	7MBR35VY120-50
50A	7MBR50XYA065-50		7MBR50VY060-50		7MBR50XYA120-50	7MBR50VY120-50
75A	7MBR75XYA065-50		7MBR75VY060-50		7MBR75XYE120-50	
100A	7MBR100XYE065-50		7MBR100VY060-50			
50A						7MBR50VX120-50
75A	7MBR75XXA065-50				7MBR75XXA120-50	7MBR75VX120-50
100A	7MBR100XXA065-50				7MBR100XXA120-50	7MBR100VX120-50
150A	7MBR150XXA065-50				7MBR150XXE120-50	7MBR150VX120-50
50A						7MBR50VZ120-50
75A					7MBR75XZA120-50	7MBR75VZ120-50
100A	7MBR100XZA065-50		7MBR100VZ060-50		7MBR100XZA120-50	7MBR100VZ120-50
150A	7MBR150XZA065-50		7MBR150VZ060-50		7MBR150XZE120-50	7MBR150VZ120-50
			7MBR150VZ060-80			7MBR150VZ120-80

Note1: EconoPIM™ is registered trademark of Infineon Technologies AG, Germany.
 Note2: "-80" : High thermal conductivity TIM (Thermal Interface Material) is pre-applied on a baseplate of "-50" type.

6-Pack EconoPACK™

Dimension[mm]

Ic

600V

1200V

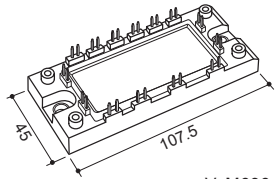
V series

X series

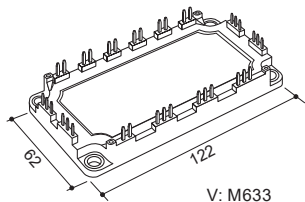
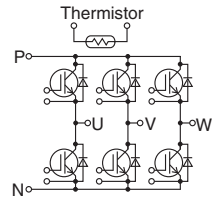


V series

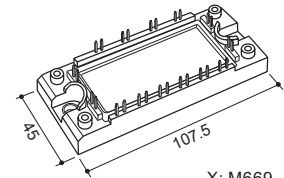
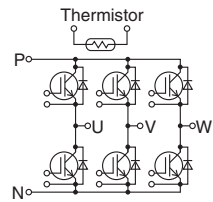
With NTC, Solder pins



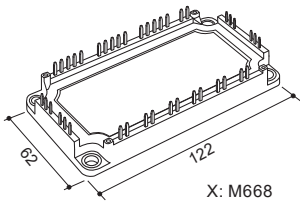
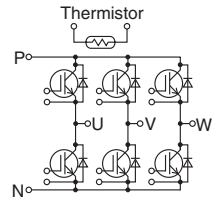
V: M636



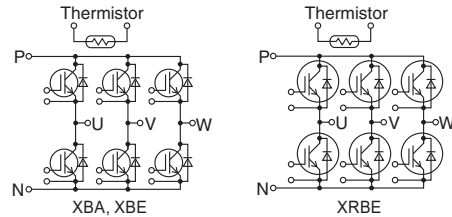
V: M633



X: M669



X: M668



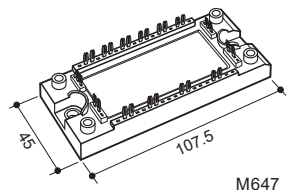
	600V	1200V
	V series	X series
50A	6MBI50VA-060-50	
75A	6MBI75VA-060-50	
100A	6MBI100VA-060-50	
100A		6MBI100VB-120-50
150A	6MBI150VB-060-50	6MBI150VB-120-50
180A		6MBI180VB-120-50
		6MBI180VB-120-55
100A		6MBI100XAE120-50
100A		6MBI100XBA120-50
150A		6MBI150XBA120-50
200A		6MBI200XBA120-50
		6MBI200XBE120-50
250A		6MBI250XRBE120-50*

Note1: 6MBI180VB-120-55; Low Thermal Impedance Version
 Note2: EconoPACK™ is registered trademark of Infineon Technologies AG, Germany.

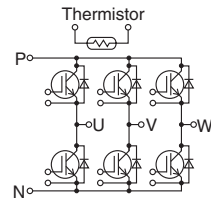
*Under development

6-Pack EconoPACK™

With NTC, Press fit pins



M647



Dimension[mm]

Ic

600V

V series



X series

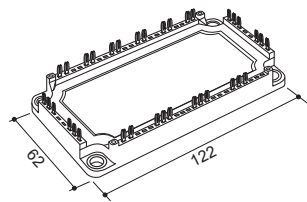
1200V

V series

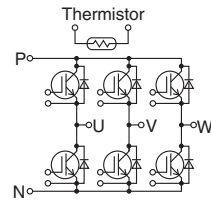
1700V

V series

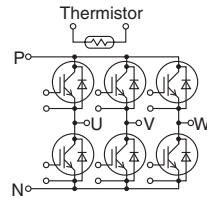
50A	6MBI50VW-060-50		6MBI50VW-120-50	
75A	6MBI75VW-060-50		6MBI75VW-120-50	
100A	6MBI100VW-060-50	6MBI100XWE120-50	6MBI100VW-120-50	
100A		6MBI100XXA120-50	6MBI100VX-120-50	6MBI100VX-170-50
			6MBI100VX-120-80	6MBI100VX-170-80
150A	6MBI150VX-060-50	6MBI150XXA120-50	6MBI150VX-120-50	
	6MBI150VX-060-80		6MBI150VX-120-80	
180A			6MBI180VX-120-50	
			6MBI180VX-120-80	
			6MBI180VX-120-55	
			6MBI180VX-120-81	
200A		6MBI200XXA120-50		
		6MBI200XXE120-50		
250A		6MBI250RXRE120-50*		



M648



XXA, XXE, VX



RXRE

Note1: 6MBI180VX-120-55; Premium type (Low Thermal Impedance Version)

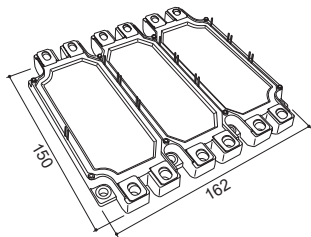
Note2: "-80", "-81": High thermal conductivity TIM (Thermal Interface Material) is pre-applied on a baseplate for "-50", "-55" type.

Note3: EconoPACK™ is registered trademark of Infineon Technologies AG, Germany.

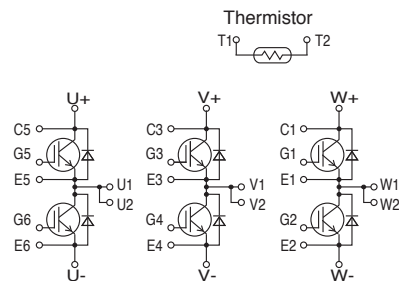
*Under development

6-Pack EconoPACK™+

With NTC, High power 6-Pack



M629



Dimension[mm]

Ic

1200V

V series

1700V

V series

225A	6MBI225V-120-50		
300A	6MBI300V-120-50		6MBI300V-170-50
	6MBI300V-120-80		
450A	6MBI450V-120-50		6MBI450V-170-50
			6MBI450V-170-80
550A	6MBI550V-120-50		

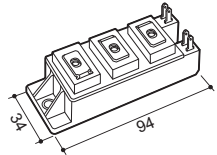
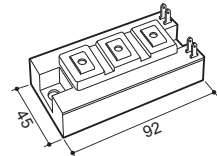
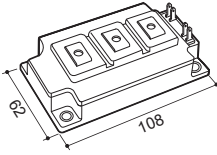
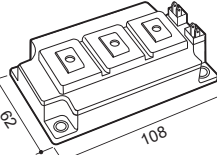
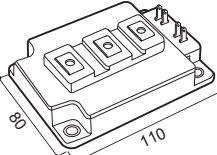
Note1: EconoPACK™+ is registered trademark of Infineon Technologies AG, Germany.

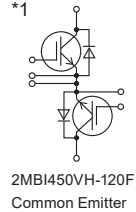
Note2: "-80": High thermal conductivity TIM (Thermal Interface Material) is pre-applied on a baseplate of "-50" type.

Standard 2-Pack

2-Pack

Dimension[mm]

Dimension[mm]	Ic	650V		600V		1200V		1700V	
		X series	V series	X series	V series	X series	V series	X series	V series
 M263	75A								
	100A		2MBI100VA-060-50	2MBI100XAA120-50	2MBI100VA-120-50	2MBI100XAA170-50	2MBI100VA-170-50		
	150A	2MBI150XAA065-50	2MBI150VA-060-50	2MBI150XAA120-50	2MBI150VA-120-50	2MBI150XAA170-50			
	200A	2MBI200XAA065-50	2MBI200VA-060-50	2MBI200XAA120-50					
 M274	150A				2MBI150VB-120-50				
	200A			2MBI200XBE120-50	2MBI200VB-120-50				
	300A	2MBI300XBE065-50	2MBI300VB-060-50	2MBI300XBE120-50					
	400A	2MBI400XBE065-50	2MBI400VB-060-50						
 M275	300A				2MBI300VD-120-50				
	400A	2MBI400XDE065-50	2MBI400VD-060-50 2MBI400VD-060-80	2MBI400XDE120-50	2MBI400VD-120-50				
	600A	2MBI600XDE065-50	2MBI600VD-060-50 2MBI600VD-060-80	2MBI600XDE120-50					
 M276	150A					2MBI150XHA170-50	2MBI150VH-170-50 2MBI150VH-170-80		
	200A				2MBI200VH-120-50 2MBI200VH-120-80	2MBI200XHA170-50	2MBI200VH-170-50 2MBI200VH-170-80		
	300A			2MBI300XHA120-50	2MBI300VH-120-50 2MBI300VH-120-80	2MBI300XHA170-50	2MBI300VH-170-50 2MBI300VH-170-80		
	400A					2MBI400XHA170-50			
	450A			2MBI450XHA120-50	2MBI450VH-120-50 2MBI450VH-120-80 2MBI450VH-120F-50* 2MBI450VH-120F-80*				
	600A			2MBI600XHA120-50					
 M277	300A				2MBI300VE-120-50 2MBI300VE-120-80*	2MBI300XEE170-50	2MBI300VE-170-50 2MBI300VE-170-80*		
	400A					2MBI400XEE170-50	2MBI400VE-170-50 2MBI400VE-170-80*		
	450A			2MBI450XEE120-50	2MBI450VE-120-50 2MBI450VE-120-80				
	600A	2MBI600XEE065-50	2MBI600VE-060-50 2MBI600VE-060-80*	2MBI600XEE120-50	2MBI600VE-120-50 2MBI600VE-120-80				

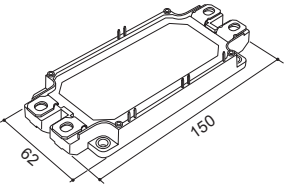
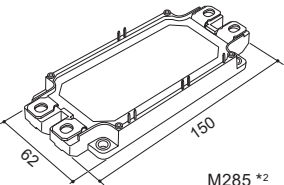
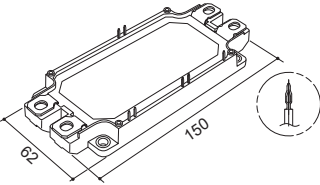
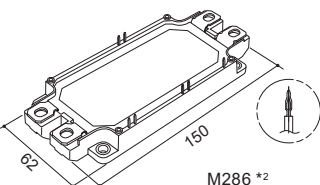


Note: "-80" : High thermal conductivity TIM (Thermal Interface Material) is pre-applied on a baseplate of "-50" type.

*Under development

Standard 2-Pack

Dimension[mm]

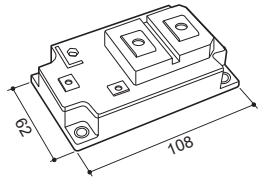
ic	1200V			1700V		
	X series	V series	V series With SiN substrate *1	X series	V series	V series With SiN substrate *1
With NTC, Solder pins  M254  M285 *2						
	225A	2MBI225XNA120-50	2MBI225VN-120-50 2MBI225VN-120-80	2MBI225VN-120S-50 2MBI225VN-120S-80	2MBI225XNA170-50	
	300A	2MBI300XNA120-50	2MBI300VN-120-50 2MBI300VN-120-80	2MBI300VN-120S-50 2MBI300VN-120S-80	2MBI300XNA170-50	2MBI300VN-170-50 2MBI300VN-170-80
	450A	2MBI450XNA120-50	2MBI450VN-120-50 2MBI450VN-120-80	2MBI450VN-120S-50 2MBI450VN-120S-80	2MBI450XNA170-50	2MBI450VN-170-50 2MBI450VN-170-80
	550A					2MBI550VN-170-50 2MBI550VN-170-80
	600A	2MBI600XNG120-50		2MBI600VN-120-50 2MBI600VN-120-80	2MBI600XNG170-50	
	600A	2MBI600XNE120-50			2MBI600XNE170-50	
	800A	2MBI800XNE120-50			2MBI800XRNE170-50	
	1000A	2MBI1000XRNE120-50				
With NTC, Press fit pins  M282  M286 *2						
	225A	2MBI225XNB120-50	2MBI225VX-120-50 2MBI225VX-120-80		2MBI225XNB170-50	2MBI225VX-170-50 2MBI225VX-170-80
	300A	2MBI300XNB120-50	2MBI300VX-120-50 2MBI300VX-120-80		2MBI300XNB170-50	2MBI300VX-170-50 2MBI300VX-170-80
	450A	2MBI450XNB120-50	2MBI450VX-120-50 2MBI450VX-120-80		2MBI450XNB170-50	2MBI450VX-170-50 2MBI450VX-170-80
	550A					2MBI550VX-170-50 2MBI550VX-170-80
	600A	2MBI600XNH120-50		2MBI600VX-120-50 2MBI600VX-120-80	2MBI600XNH170-50	
	600A	2MBI600XNF120-50			2MBI600XNF170-50	
	800A	2MBI800XNF120-50			2MBI800XRNF170-50	
	1000A	2MBI1000XRNF120-50				

Note: "-80" : High thermal conductivity TIM (Thermal Interface Material) is pre-applied on a baseplate of "-50" type.

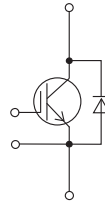
*1 Low thermal impedance version

*2 Low thermal impedance and high tracking capability type

Standard 1-Pack



M153



Dimension[mm]

Ic

1200V

1700V

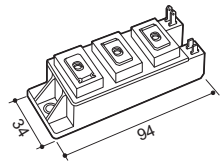
V series

V series
with AlN substrate

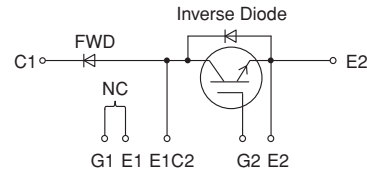
V series

Ic	V series	V series with AlN substrate	V series
300A			1MBI300V-170-50
400A	1MBI400V-120-50	1MBI400VF-120-50	1MBI400V-170-50
600A	1MBI600V-120-50	1MBI600VF-120-50	1MBI600V-170-50
900A	1MBI900V-120-50		

Chopper



M262



Dimension[mm]

Ic

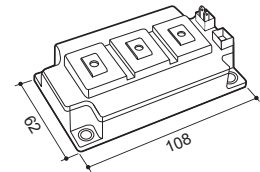
600V

1200V

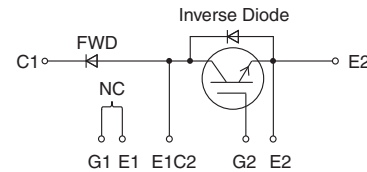
V series

V series

Ic	V series	V series
150A		1MBI150VA-120L-50
200A		1MBI200VA-120L-50
400A	1MBI400VH-060L-50	

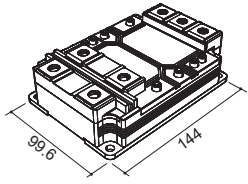


M283



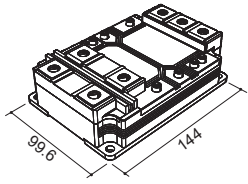
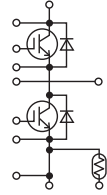
High Power Modules HPnC

2-Pack

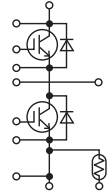





M297

Dimension[mm]



M298



Ic	1700V 		2300V 		3300V 	
	X series		X series		X series	
450A					2MBI450XYF330-50*	
1000A	2MBI1000XYF170-50*					
1200A	2MBI1200XYF170-50*					
1500A	2MBI1500XYF170-50*					
1200A	2MBI1200XZF170-50*		2MBI1200XZF230-50*			
1500A	2MBI1500XZF170-50*					
1800A	2MBI1800XZF170-50*					

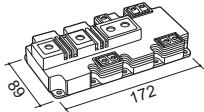
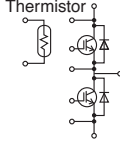
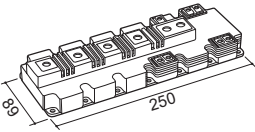
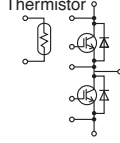
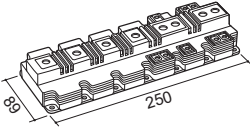
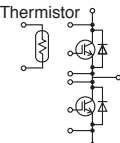
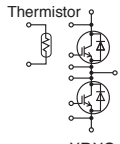
Note: M297 : Mgsic-baseplate, M298 : Cu-baseplate.

*Under development

PrimePACK™

Dimension [mm]

Ic

X series	1200V			X series	1700V				
	V series				V series				
	Low switching loss	Soft turn off			Low switching loss	Low switching loss	Soft turn off		
 M271		600A		2MBI600VXA-120E-50					
				2MBI600VXA-120E-54					
				2MBI600VXA-120E-80					
			650A				2MBI650XXA170-50	2MBI650VXA-170E-50	
								2MBI650VXA-170E-54	
								2MBI650VXA-170E-80	
								2MBI650VXA-170EA-50	
								2MBI650VXA-170EA-54	
								2MBI650VXA-170EA-80	
			900A	2MBI900XXA120P-50	2MBI900VXA-120E-50	2MBI900VXA-120P-50			
		2MBI900VXA-120E-54	2MBI900VXA-120P-54						
		2MBI900VXA-120E-80	2MBI900VXA-120P-80						
1200A	2MBI1200XXE120P-50			2MBI1200XXE170-50					
 M272		1000A				2MBI1000XXB170-50	2MBI1000VXB-170E-50		
							2MBI1000VXB-170E-54		
							2MBI1000VXB-170E-80		
							2MBI1000VXB-170EA-50		
							2MBI1000VXB-170EA-54		
							2MBI1000VXB-170EA-80		
			1400A	2MBI1400XXB120P-50	2MBI1400VXB-120E-50	2MBI1400VXB-120P-50	2MBI1400XXB170-50	2MBI1400VXB-170E-50	2MBI1400VXB-170P-50
					2MBI1400VXB-120E-54	2MBI1400VXB-120P-54		2MBI1400VXB-170E-54	2MBI1400VXB-170P-54
					2MBI1400VXB-120E-80	2MBI1400VXB-120P-80		2MBI1400VXB-170E-80	2MBI1400VXB-170P-80
			1800A	2MBI1800XXF120P-50			2MBI1800XXF170-50		
1800A	2MBI1800XXG120P-50*			2MBI1800XXG170-50					
2400A	2MBI2400XRXG120-50*			2MBI2400XRXG170-50*					
 M291	 XXG  XRXG								

Note1: The products with suffix '-54' on this page are labeled to specify the rank of $V_{CE(sat)}$ and V_f .
 Note2: "-80": High thermal conductivity TIM (Thermal Interface Material) is pre-applied on a baseplate for "-54" type.
 Note3: EA types reduce V_f and thermal resistance and are suitable for applications with high diode loads.
 Note4: PrimePACK™ is registered trademark of Infineon Technologies AG, Germany.
 Note5: The products with 'P' on this page are 'soft turn off' type

*Under development

PrimePACK™

Dimension[mm]

I_c

1200V

1700V

V series

V series

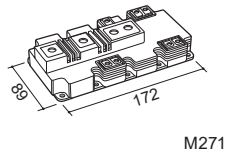
Low side configuration

High side configuration

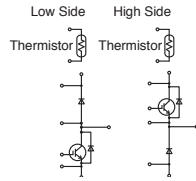
Low side configuration

High side configuration

Chopper



M271



650A

1MBI650VXA-170EL-50	1MBI650VXA-170EH-50
1MBI650VXA-170EL-54	1MBI650VXA-170EH-54
1MBI650VXA-170EL-80	1MBI650VXA-170EH-80

900A

1MBI900VXA-120PD-50 *1	1MBI900VXA-120PC-50 *1
1MBI900VXA-120PD-54 *1	1MBI900VXA-120PC-54 *1
1MBI900VXA-120PD-80 *1	1MBI900VXA-120PC-80 *1

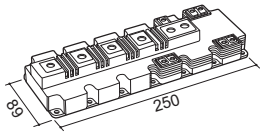
1000A

1MBI1000VXB-170EL-50	1MBI1000VXB-170EH-50
1MBI1000VXB-170EL-54	1MBI1000VXB-170EH-54
1MBI1000VXB-170EL-80	1MBI1000VXB-170EH-80

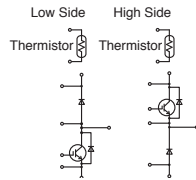
1400A

1MBI1400VXB-120PL-54	1MBI1400VXB-120PH-54
1MBI1400VXB-120PL-80	1MBI1400VXB-120PH-80

1MBI1400VXB-170PL-50	1MBI1400VXB-170PH-50
1MBI1400VXB-170PL-54	1MBI1400VXB-170PH-54



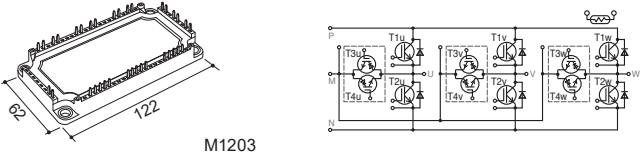
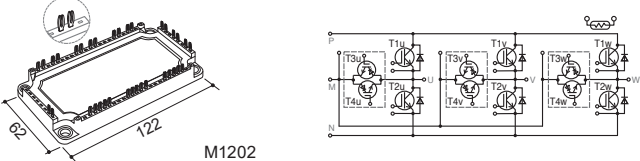
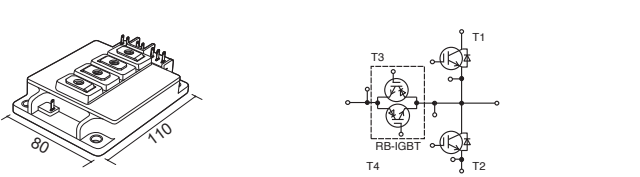
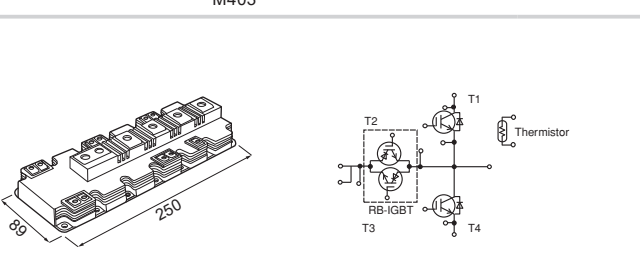
M272



Note1: The products with suffix '-54' on this page are labeled to specify the rank of V_{CE(sat)} and V_F.
 Note2: "-80" : High thermal conductivity TIM (Thermal Interface Material) is pre-applied on a baseplate for "-54" type.
 Note3: PrimePACK™ is registered trademark of Infineon Technologies AG, Germany.
 *1 Antiparallel diode current rating is 120A. Application circuit is Boost/Buck chopper only.

Advanced T-type NPC 3-level Modules

Dimension[mm] I_c

		600V		1200V		1700V		
		V series	RB-IGBT	V series	RB-IGBT	V series	RB-IGBT	
3 Phase With NTC, Solder pins	 <p>M1203</p>	50A		12MBI50VN-120-50	600V			
		75A		12MBI75VN-120-50	600V			
		100A		12MBI100VN-120-50	600V			
3 Phase With NTC, Press fit pins	 <p>M1202</p>	50A		12MBI50VX-120-50	600V			
		75A		12MBI75VX-120-50	600V			
		100A		12MBI100VX-120-50	600V			
1 Phase	 <p>M403</p>	220A				4MBI220VG-170R2-50	1200V	
		300A			4MBI300VG-120R-50	600V		
					4MBI300VG-120R1-50	900V		
		340A			4MBI340VF-120R-50	600V		
		400A	4MBI400VG-060R-50	600V	4MBI400VF-120R-50*1	600V		
1 Phase	 <p>M404</p>	450A		4MBI450VB-120R1-50	900V	4MBI450VB-170R2-50	1200V	
		600A		4MBI450VB-120R1-60	900V	4MBI450VB-170R2-60	1200V	
							4MBI600VB-170R2-50	1200V
		650A			4MBI650VB-120R1-50	900V	4MBI600VB-170R2-60	1200V
		900A			4MBI650VB-120R1-60	900V		
			4MBI900VB-120R1-50	900V				
			4MBI900VB-120R1-60	900V				
			4MBI900VB-120RA-50	600V				
			4MBI900VB-120RA-60	600V				

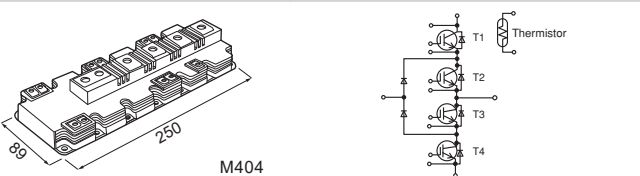
Note 1: AT-NPC (Advanced T-type Neutral-Point-Clamped) 3-level Module integrates RB-IGBT (Reverse Blocking-IGBT) in addition to ordinary IGBT and FWD in single package.

Note 2: The products with suffix '-60' on this page are labeled the characteristic data.

*1 Particular for Inverter of PCS

I-type NPC 3-level Module

Dimension[mm] I_c

		600V	1200V	1700V
		V series	V series	V series
1 Phase	 <p>M404</p>	600A	4MBI600VC-120-50	
			4MBI600VC-120-60	

Note: The products with suffix '-60' on this page are labeled the characteristic data.

Small IPM (Intelligent Power Modules)

Built-in protection functions

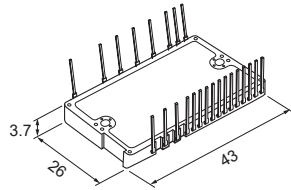
- P-side fault status output (Alarm)
- N-side fault status output (Alarm)
- Under voltage protection (self shutdown)
- Over current protection (self shutdown)
- Overheating protection (self shutdown)
- Temperature sensor output (Vtemp, out)

Dimension [mm]

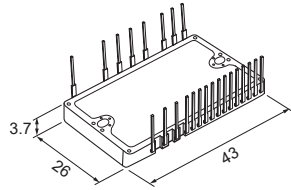
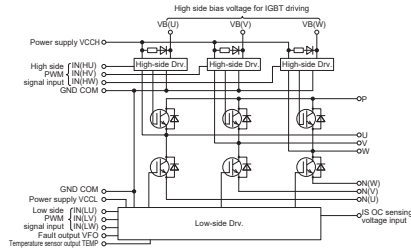
600 / 650V



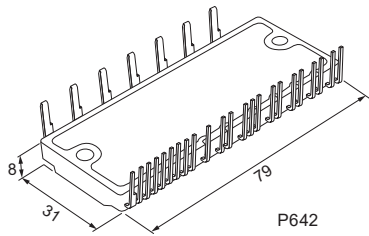
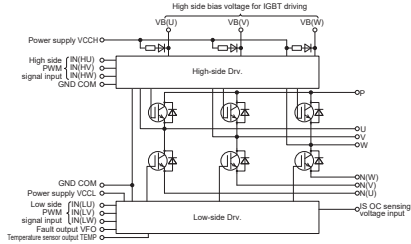
Small IPM with High Voltage Driver-IC without Brake-Chopper



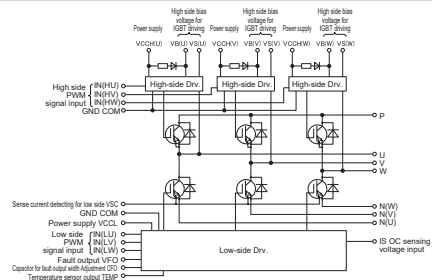
P633A



P633C



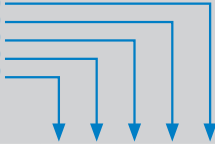
P642



IC	Series	1	2	3	4	5	6
15A	6MBP15XSD060-50	✓	—	✓	✓	✓	—
20A	6MBP20XSD060-50	✓	—	✓	✓	✓	—
30A	6MBP30XSD060-50	✓	—	✓	✓	✓	—
35A	6MBP35XSD060-50	✓	—	✓	✓	✓	—
15A	6MBP15XSF060-50	✓	—	✓	✓	✓	—
20A	6MBP20XSF060-50	✓	—	✓	✓	✓	—
30A	6MBP30XSF060-50	✓	—	✓	✓	✓	—
35A	6MBP35XSF060-50	✓	—	✓	✓	✓	—
15A	6MBP15XSJ065-50	✓	—	✓	✓	✓	—
20A	6MBP20XSJ065-50	✓	—	✓	✓	✓	—
30A	6MBP30XSJ065-50	✓	—	✓	✓	✓	—
35A	6MBP35XSJ065-50	✓	—	✓	✓	✓	—
15A	6MBP15XSK065-50	✓	—	✓	✓	✓	—
20A	6MBP20XSK065-50	✓	—	✓	✓	✓	—
30A	6MBP30XSK065-50	✓	—	✓	✓	✓	—
35A	6MBP35XSK065-50	✓	—	✓	✓	✓	—
50A	6MBP50XTA065-50	✓	—	✓	✓	✓	—
75A	6MBP75XTA065-50	✓	—	✓	✓	✓	—
50A	6MBP50XTC065-50	✓	—	✓	✓	✓	—
75A	6MBP75XTC065-50	✓	—	✓	✓	✓	—

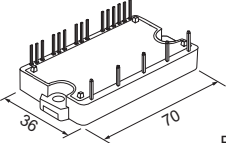
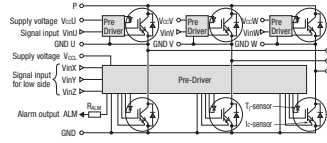
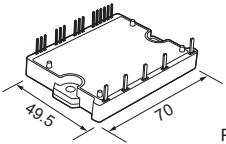
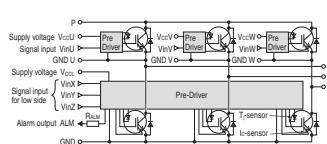
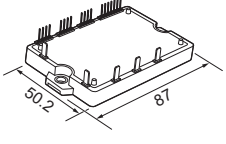
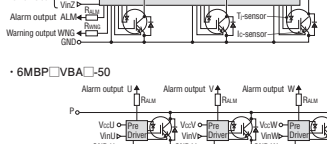
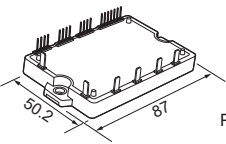
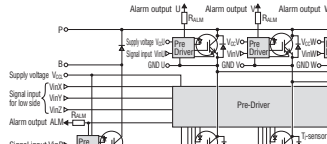
Built-in protection functions

- P-side fault status output (Alarm)
- N-side fault status output (Alarm)
- Under voltage protection (self shutdown)
- Over current protection (self shutdown)
- Overheating protection (self shutdown)



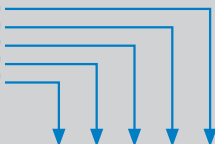
IPM (Intelligent Power Modules)

Dimension[mm]

	Dimension[mm]	P-side fault status output (Alarm)	N-side fault status output (Alarm)	Under voltage protection (self shutdown)	Over current protection (self shutdown)	Overheating protection (self shutdown)	650V		600V		1200V	
							X series	V series	X series	V series		
Without Brake-Chopper  <p>P639</p> 	36 x 70	✓	✓	✓	✓	—	10A					
							20A	6MBP20XRHA065-50				
							30A	6MBP30XRHA065-50				
Without Brake-Chopper  <p>P629</p> 	49.5 x 70	✓	✓	✓	✓	—	10A					6MBP10VAA120-50
							15A					6MBP15VAA120-50
							20A		6MBP20VAA060-50			
							25A				6MBP25XAA120-50	6MBP25VAA120-50
							30A		6MBP30VAA060-50			
							35A				6MBP35XAA120-50	
							50A	6MBP50XAA065-50	6MBP50VAA060-50			
Without Brake-Chopper  <p>P626</p> 	50.2 x 87	✓	✓	✓	✓	✓	25A					6MBP25XBA120-50
							35A					6MBP35VBA120-50
								50A	6MBP50XBA065-50	6MBP50VBA060-50		6MBP50XBA120-50
								75A	6MBP75XBA065-50	6MBP75VBA060-50		6MBP75VBA120-50
								100A	6MBP100XBA065-50			6MBP100VBA120-50
With Brake-Chopper  <p>P644</p> 	50.2 x 87	✓	✓	✓	✓	✓	25A					7MBP25XJN120-50
							35A					7MBP35XJN120-50
								50A	7MBP50XJN065-50			
								75A	7MBP75XJN065-50			

Built-in protection functions

- P-side fault status output (Alarm)
- N-side fault status output (Alarm)
- Under voltage protection (self shutdown)
- Over current protection (self shutdown)
- Overheating protection (self shutdown)



IPM (Intelligent Power Modules)

Dimension[mm]

	Dimension[mm]	Ic	650V		600V		1200V	
			X series	V series	X series	V series		
Without Brake-Chopper	 P636 • 6MBP□XFN□-50 • 6MBP□VFN□-50 	25A						6MBP25VFN120-50
		35A						6MBP35VFN120-50
		50A			6MBP50VFN060-50	6MBP50XFN120-50		6MBP50VFN120-50
		75A			6MBP75VFN060-50			
		100A	6MBP100XFN065-50	6MBP100VFN060-50				
With Brake-Chopper	 P636 • 7MBP□XFN□-50 • 7MBP□VFN□-50 	25A					7MBP25VFN120-50	
		35A					7MBP35VFN120-50	
		50A			7MBP50VFN060-50	7MBP50XFN120-50		7MBP50VFN120-50
		75A			7MBP75VFN060-50			
		100A	7MBP100XFN065-50	7MBP100VFN060-50				
Without Brake-Chopper	 P638 • 6MBP□XGN□-50 • 6MBP□VGN□-50 	50A					6MBP50XGN120-50	
		75A					6MBP75XGN120-50	
		100A	6MBP100XGN065-50					
		150A	6MBP150XGN065-50					

Built-in protection functions

- P-side fault status output (Alarm)
- N-side fault status output (Alarm)
- Under voltage protection (self shutdown)
- Over current protection (self shutdown)
- Overheating protection (self shutdown)

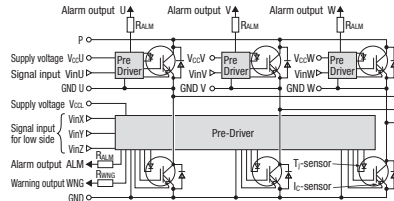
IPM (Intelligent Power Modules)

Dimension [mm]

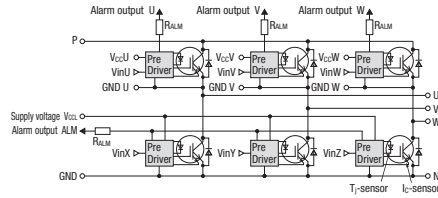
Without Brake-Chopper

With Brake-Chopper

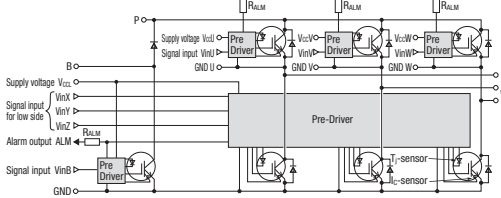
- 6MBP□XDA□-50
- 6MBP□XDN□-50



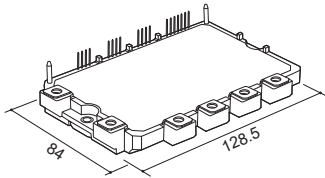
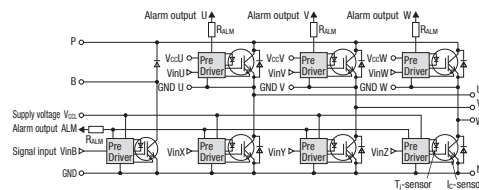
- 6MBP□VDA□-50
- 6MBP□VDN□-50



- 7MBP□XDA□-50
- 7MBP□XDN□-50

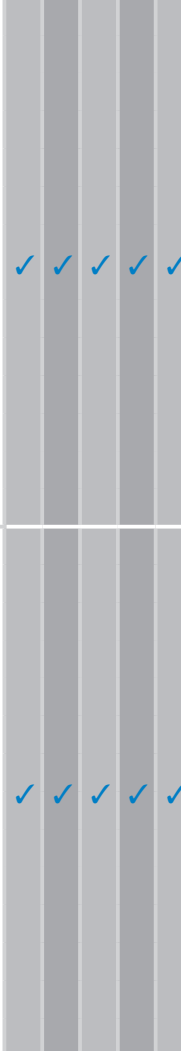


- 7MBP□VDA□-50
- 7MBP□VDN□-50



P630

Ic	650V		600V		1200V	
	X series		V series		X series	V series
25A						6MBP25VDA120-50
35A						6MBP35VDA120-50
50A			6MBP50VDA060-50		6MBP50XDA120-50	6MBP50VDA120-50
75A			6MBP75VDA060-50		6MBP75XDA120-50	6MBP75VDA120-50
100A	6MBP100XDA065-50		6MBP100VDA060-50		6MBP100XDA120-50	6MBP100VDA120-50
			6MBP100VDN060-50		6MBP100XDN120-50	6MBP100VDN120-50
150A	6MBP150XDA065-50		6MBP150VDA060-50			
	6MBP150XDN065-50		6MBP150VDN060-50		6MBP150XDN120-50	
200A			6MBP200VDA060-50			
	6MBP200XDN065-50		6MBP200VDN060-50			
250A						
	6MBP250XDN065-50					
25A						7MBP25VDA120-50
35A						7MBP35VDA120-50
50A			7MBP50VDA060-50		7MBP50XDA120-50	7MBP50VDA120-50
75A			7MBP75VDA060-50		7MBP75XDA120-50	7MBP75VDA120-50
100A	7MBP100XDA065-50		7MBP100VDA060-50		7MBP100XDA120-50	7MBP100VDA120-50
			7MBP100VDN060-50		7MBP100XDN120-50	7MBP100VDN120-50
150A	7MBP150XDA065-50		7MBP150VDA060-50			
	7MBP150XDN065-50		7MBP150VDN060-50		7MBP150XDN120-50	
200A			7MBP200VDA060-50			
	7MBP200XDN065-50		7MBP200VDN060-50			
250A						
	7MBP250XDN065-50					



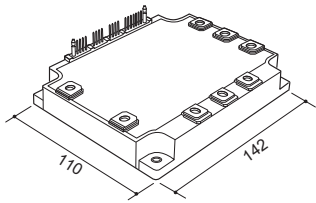
Note: The products with 'VDN,XDN' on this page have Low Thermal Impedance Version.

Built-in protection functions

- P-side fault status output (Alarm)
- N-side fault status output (Alarm)
- Under voltage protection (self shutdown)
- Over current protection (self shutdown)
- Overheating protection (self shutdown)

IPM (Intelligent Power Modules)

Without Brake-Chopper

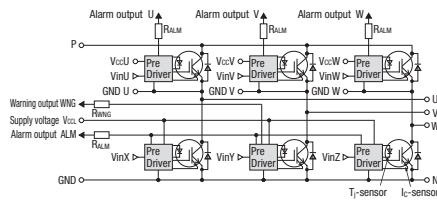


P631

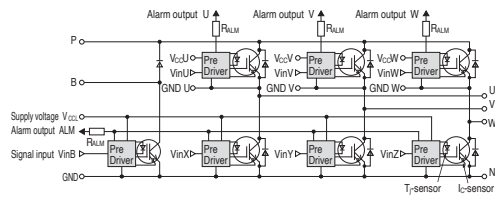
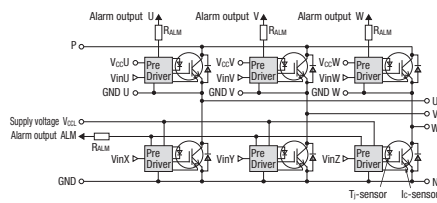
With Brake-Chopper

Dimension[mm]

• 6MBP□XEN□-50



• 6MBP□VEA□-50



Ic

- 100A
- 150A
- 200A
- 300A
- 400A
- 450A

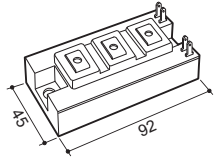
Ic	650V		600V		1200V	
	X series	series 7G	V series	series 7G	X series	V series
100A					6MBP100XEN120-50	6MBP100VEA120-50
150A					6MBP150XEN120-50	6MBP150VEA120-50
200A	6MBP200XEN065-50		6MBP200VEA060-50		6MBP200XEN120-50	6MBP200VEA120-50
300A	6MBP300XEN065-50		6MBP300VEA060-50		6MBP300XEN120-50	
400A			6MBP400VEA060-50			
450A	6MBP450XEN065-50					
100A					7MBP100XEN120-50	7MBP100VEA120-50
150A					7MBP150XEN120-50	7MBP150VEA120-50
200A	7MBP200XEN065-50		7MBP200VEA060-50		7MBP200XEN120-50	7MBP200VEA120-50
300A	7MBP300XEN065-50		7MBP300VEA060-50		7MBP300XEN120-50	
400A			7MBP400VEA060-50			
450A	7MBP450XEN065-50					

Hybrid SiC Modules

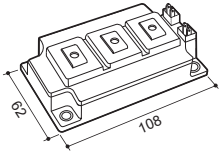
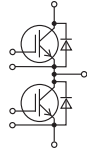
Dimension[mm]

Ic

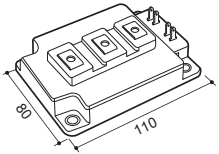
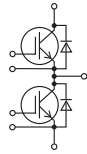
2-Pack



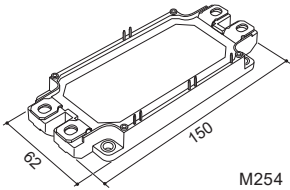
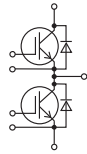
M274



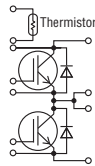
M276



M277



M254



1200V



1700V



V series

VW series

V series

200A

2MSI200VAB-120-53

200A

2MSI300VAH-120C-53

300A

400A

300A

2MSI300VAN-120-53

450A

2MSI450VAN-120-53

600A

2MSI600VAN-120-53

2MSI200VWAH-120-53

2MSI300VWAH-120-53

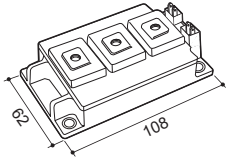
2MSI400VAE-170-53

All-SiC Modules

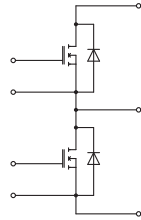
Dimension[mm]



Ic

2-Pack



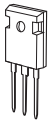
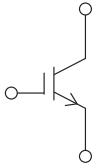

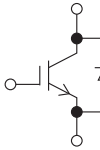
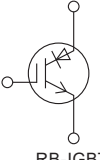

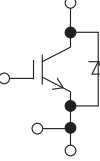
M295



		1200V 	1700V 
2G SiC-MOSFET Modules with 1G SiC-SBD			
200A			2CSI200DAHE170-50*
300A	2CSI300DAHE120-50*		2CSI300DAHE170-50*
400A			2CSI400DAHE170-50*
450A	2CSI450DAHE120-50*		
600A	2CSI600DAHE120-50*		



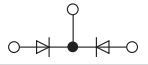
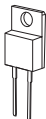

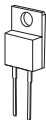
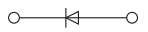
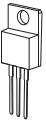
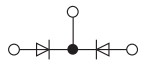
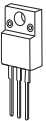
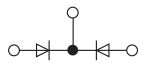

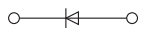
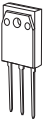

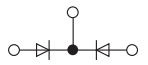

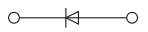
*Under development

Discrete IGBT

	Ic	600V		650V	1200V	
		V series	RB series	XS series	XS series	V series
TO-247 (Type:B)  	30A			FGW30XS65		
	40A			FGW40XS65	FGW40XS120	
	50A			FGW50XS65		
	75A			FGW75XS65	FGW75XS120	
 	15A					FGW15N120VD
	25A					FGW25N120VD
	30A	FGW30N60VD		FGW30XS65C		
	40A			FGW40XS65C	FGW40XS120C	FGW40N120VD
	50A	FGW50N60VD		FGW50XS65D		
	75A			FGW75XS65D	FGW75XS120C	
 RB-IGBT	85A		FGW85N60RB			
TO-247-4  	75A			FGZ75XS65C	FGZ75XS120C	

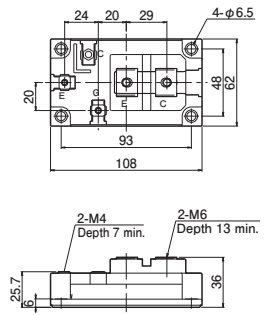
SiC-SBD



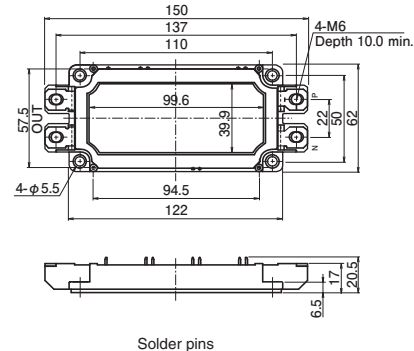
		650V		1200V		
		SiC-SBD 2G	SiC-SBD 1G	SiC-SBD 2G	SiC-SBD 1G	
T-Pack(s) 	 	10A	FDC210S65			
		20A				
		25A	FDC225S65			
		20A	FDC220C65			
TO-220-2 (Type:A) 		6A	FDC2PT06S65			
		8A	FDC2PT08S65			
		10A	FDC2PT10S65			
TO-220-2 (Type:B) 		10A	FDCP10S65			
		25A	FDCP25S65			
TO-220 		20A	FDCP20C65			
TO-220F 		20A	FDCA20C65			
TO-220F-2 		6A	FDC2AT06S65			
		8A	FDC2AT08S65			
		10A	FDC2AT10S65	FDCA10S65		
		18A			FDCA18S120	
		25A		FDCA25S65		
TO-247 (Type:A) 	 	10A	FDCY10S65			
		18A			FDCY18S120	
		25A		FDCY25S65		
		20A		FDCY20C65		
		36A			FDCY36C120	
		50A		FDCY50C65		
TO-247-2 (Type:A) 		18A			FDCW18T120	
		20A			FDC2WT20S120	
		40A			FDC2WT40S120	

Package Outlines, mm

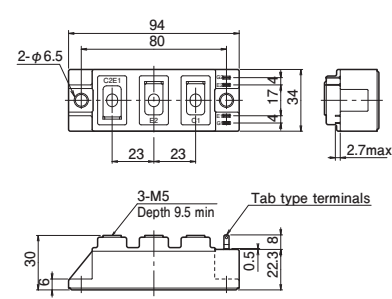
M153



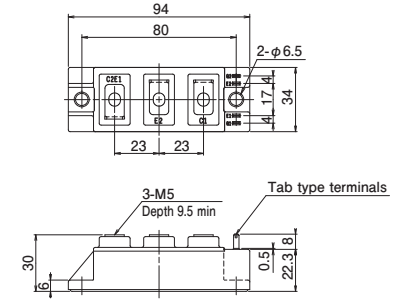
M254



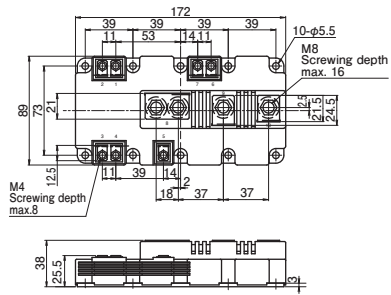
M262



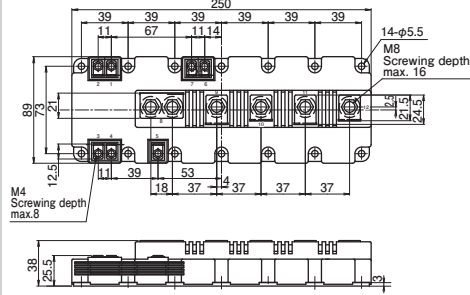
M263



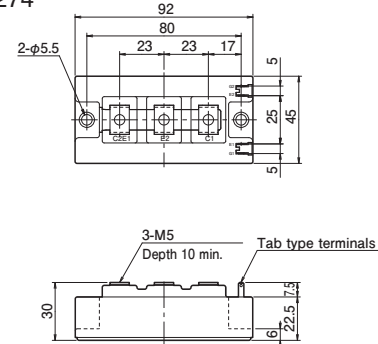
M271



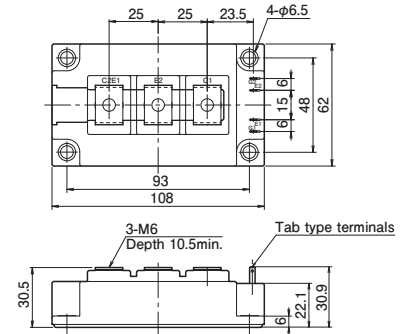
M272



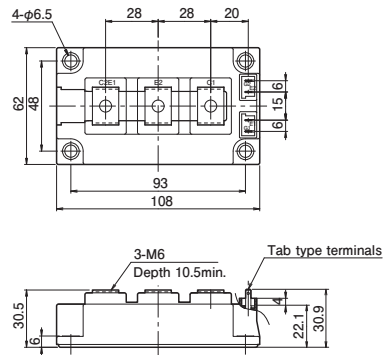
M274



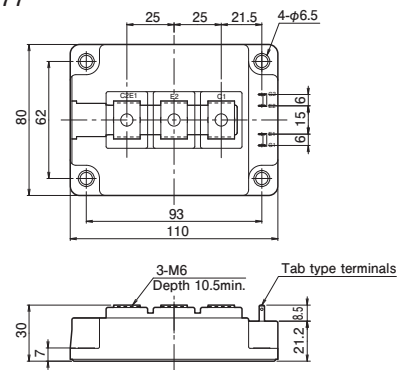
M275



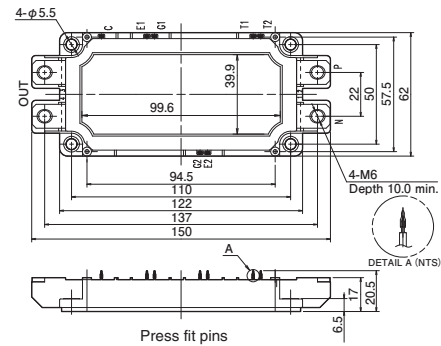
M276



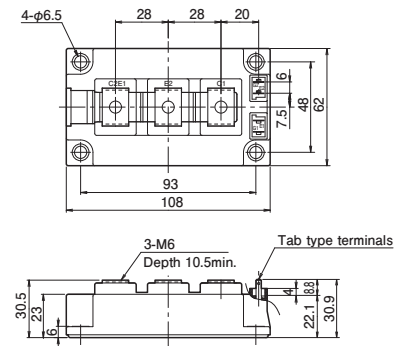
M277



M282

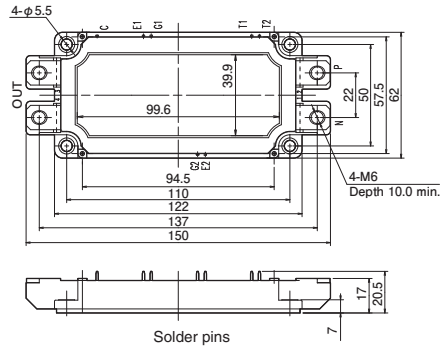


M283

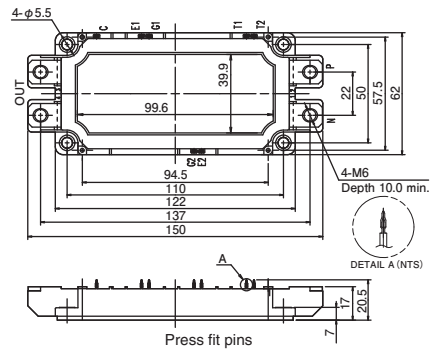


Package Outlines, mm

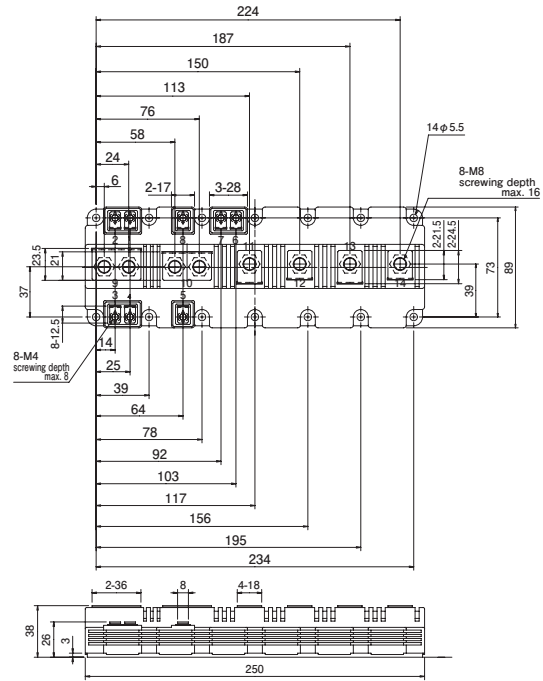
M285



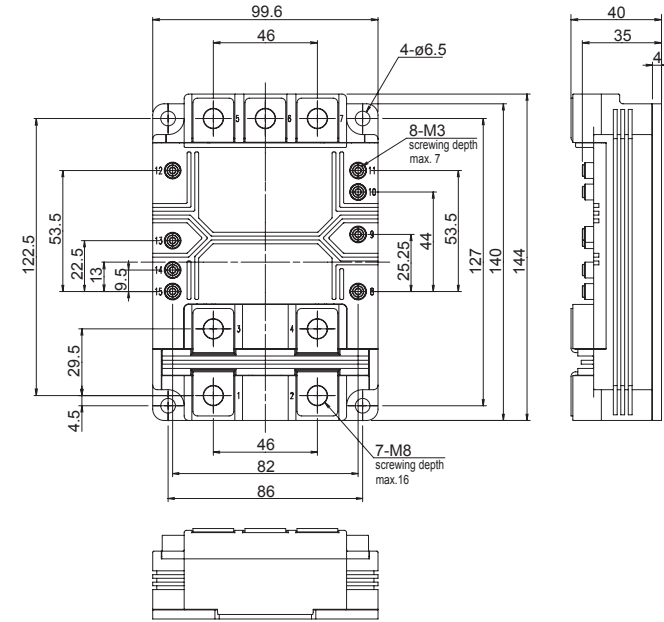
M286



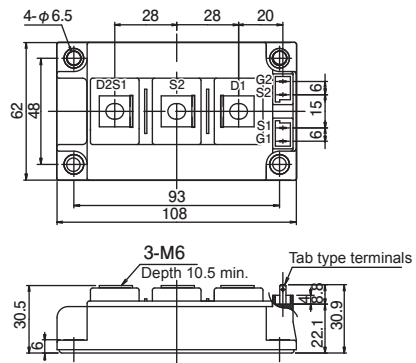
M291



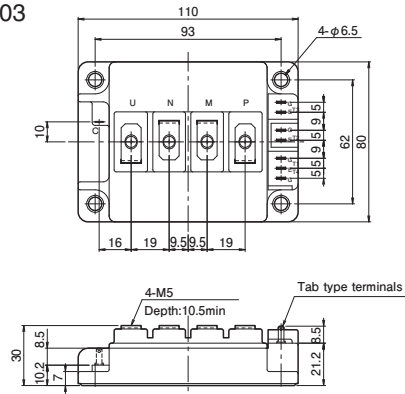
M297, M298



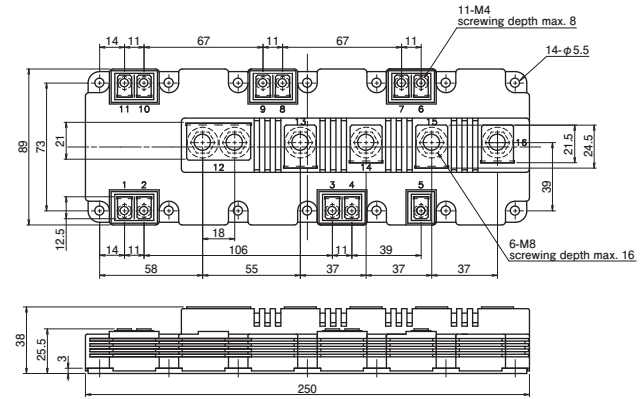
M295



M403

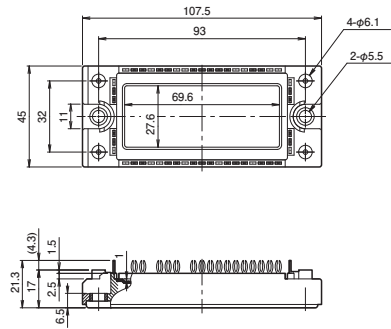


M404



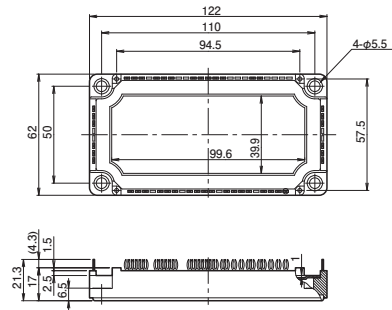
Package Outlines, mm

M721



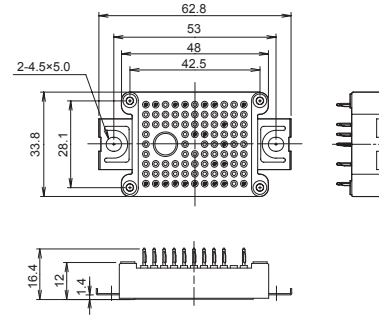
Press fit pins

M722



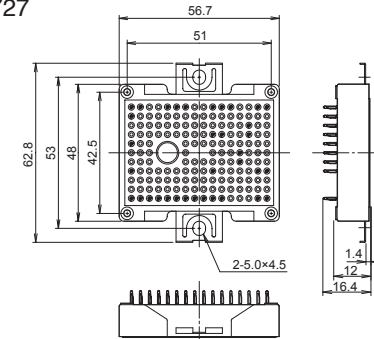
Press fit pins

M726



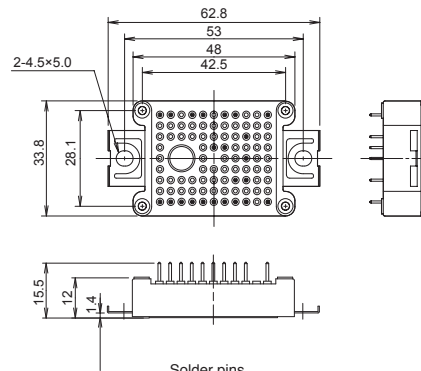
Press fit pins

M727



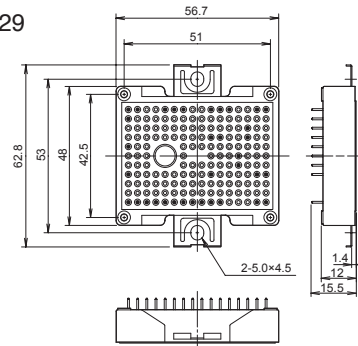
Press fit pins

M728



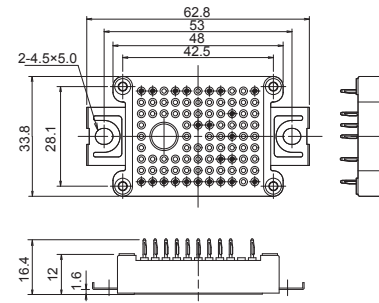
Solder pins

M729



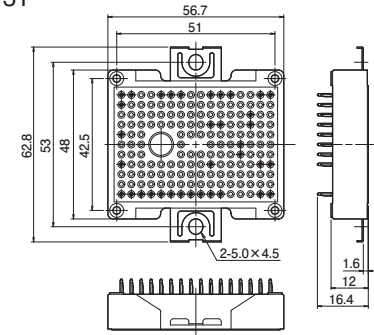
Solder pins

M730



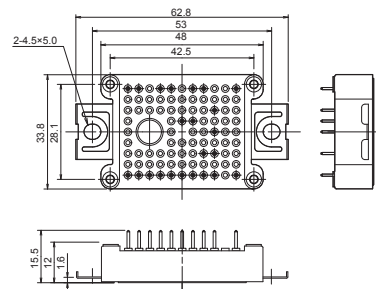
Press fit pins

M731



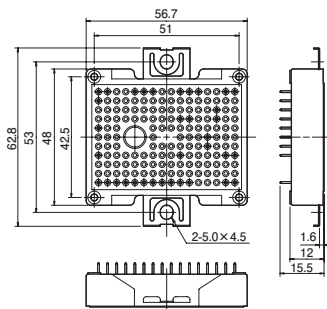
Press fit pins

M732



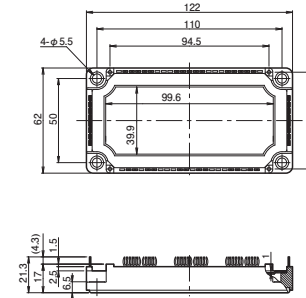
Solder pins

M733



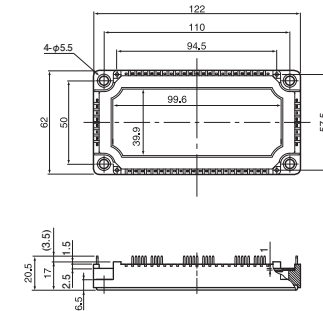
Solder pins

M1202



Press fit pins

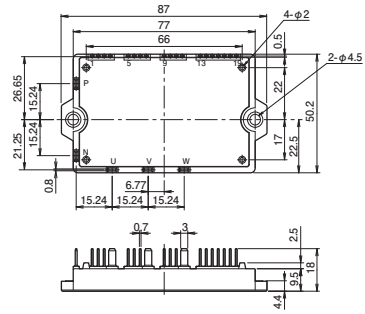
M1203



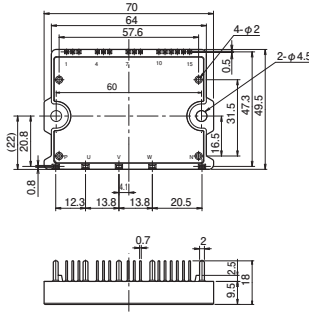
Solder pins

Package Outlines, mm

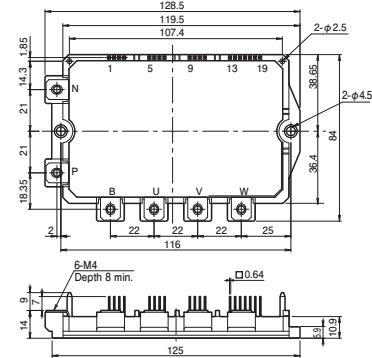
P626



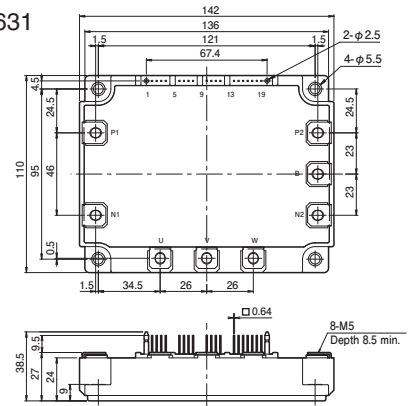
P629



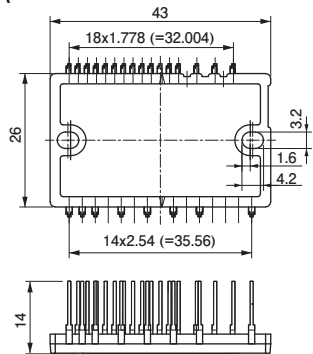
P630



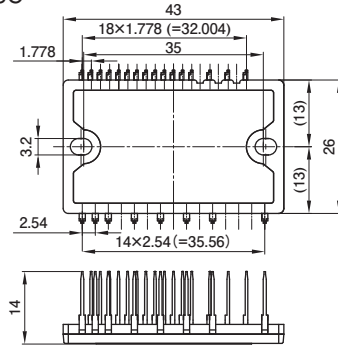
P631



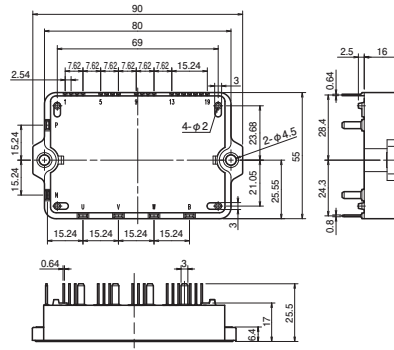
P633A



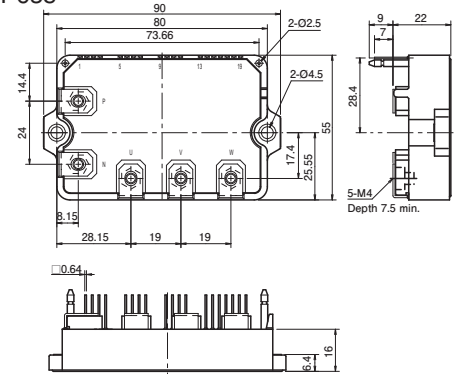
P633C



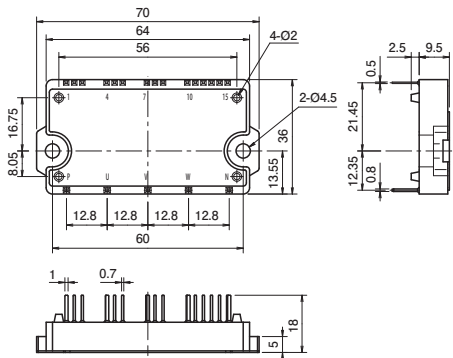
P636



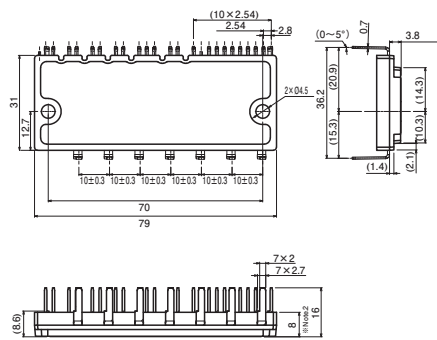
P638



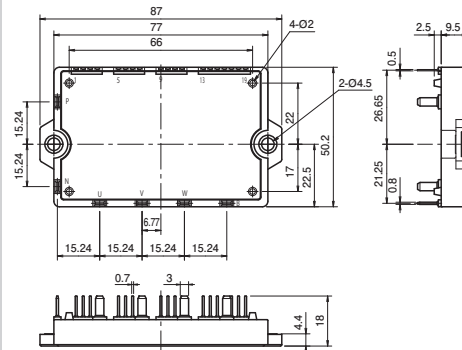
P639



P642

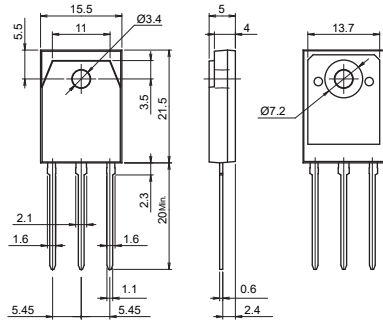


P644

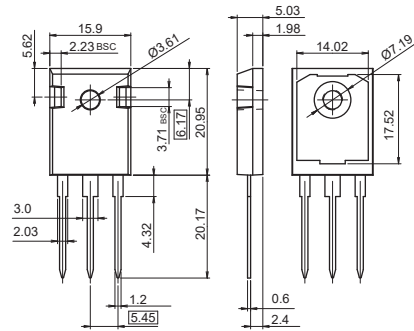


Package Outlines, mm

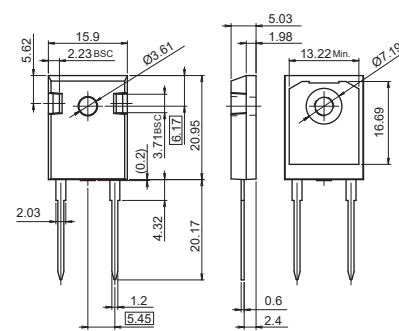
TO-247 (Type:A)



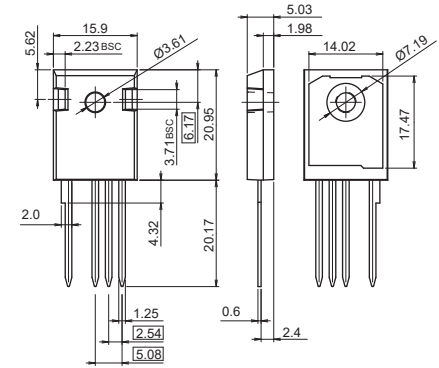
TO-247 (Type:B)



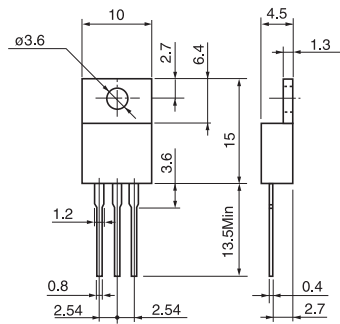
TO-247-2 (Type:A)



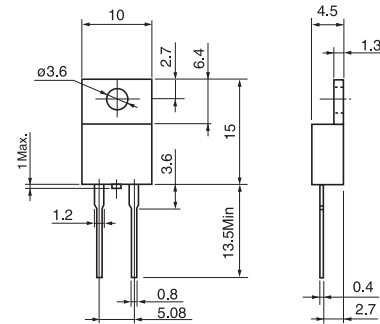
TO-247-4



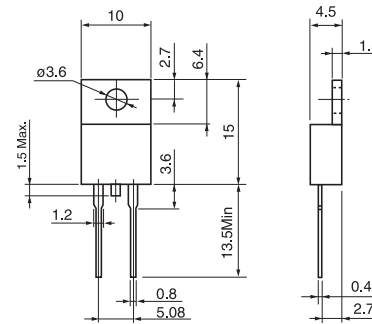
TO-220



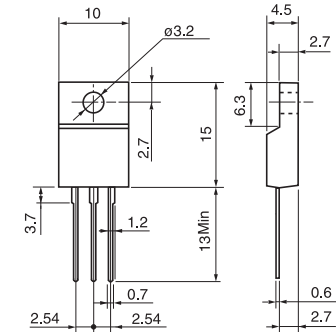
TO-220-2 (Type: A)



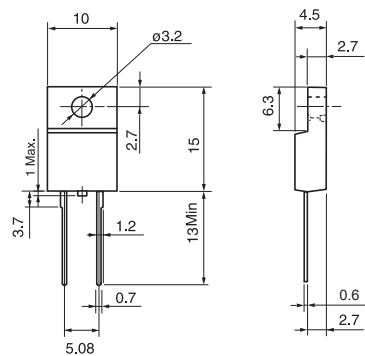
TO-220-2 (Type: B)



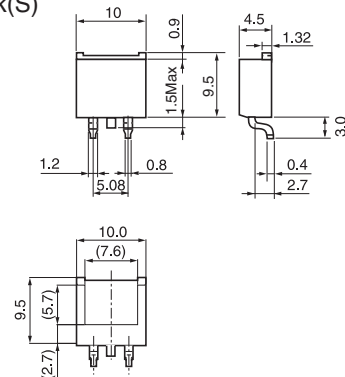
TO-220F



TO-220F-2



T-Pack(S)



Package Outlines, mm

Package Outlines, mm

WARNING

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* The photo on the cover shows just one example of the many applications in which our power semiconductors are used, but should not be construed to mean that they are necessarily used in the product in the photo.

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