

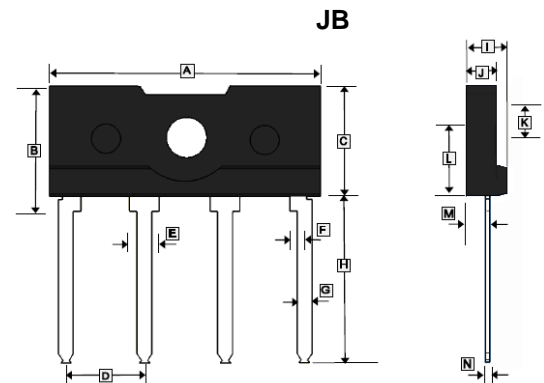
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- I_o : 6A
- V_{RRM} : 50~1000V
- Glass passivated chip
- High surge forward current capability

APPLICATIONS

- General purpose 1 phase Bridge rectifier applications



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	24.7	25.3	H	14.6	15.2
B	11.4	12.0	I	3.9	4.5
C	10.0	10.6	J	2.9	3.9
D	7.3	7.7	K	3.1	3.4
E	1.2	1.4	L	5.4	6.0
F	1.35	1.55	M	2.0	2.6
G	0.9	1.1	N	0.4	0.6

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number							Unit
		D6JB 05	D6JB 10	D6JB 20	D6JB 40	D6JB 60	D6JB 80	D6JB 100	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current@ 60Hz sine wave, R-load	With heatsink $T_C=100^\circ\text{C}$	6							A
	Without heatsink $T_A=25^\circ\text{C}$	2.8							
Non-repetitive Surge Forward Current@ 60Hz sine wave, 1 cycle, $T_J=25^\circ\text{C}$	I_{FSM}	150							A
Current Squared Time ¹	I^2t	93							A ² S
Dielectric Strength@ terminals to case, AC 1 minute	V_{DIS}	2							KV
Mounting Torque@ recommend torque : 5kg · cm	Tor	8							kg · cm
Peak Forward Voltage@ $I_{FM}=3\text{A}$, pulse measurement, rating of per diode	V_{FM}	1.05							V
Peak Reverse Current@ $V_{RM}=V_{RRM}$, pulse measurement, rating of per diode	I_{RRM}	10							μA
Thermal Resistance	Without heatsink	$R_{\theta JA}$							°C / W
	With heatsink	$R_{\theta JC}$							
Junction and Storage Temperature Range	T_J, T_{STG}	150, -55~150							°C

Notes :

1. $1\text{ms} \leq t < 8.3\text{ms}$, $T_J=25^\circ\text{C}$, rating of per diode.

CHARACTERISTIC CURVES

FIG1: I_o - T_c Curve

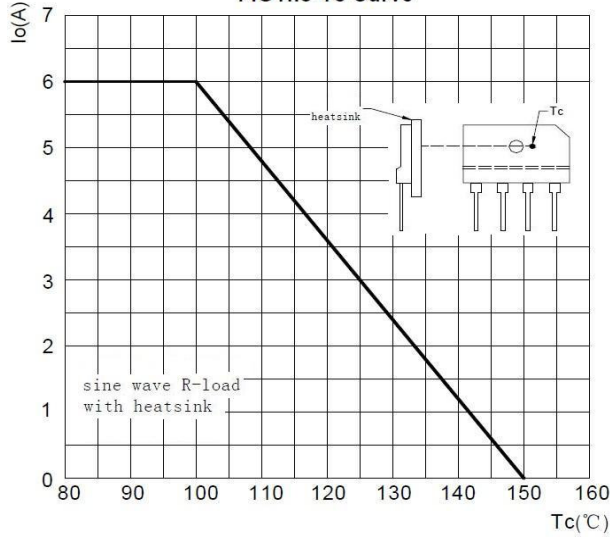


FIG2: Surge Forward Current Capability

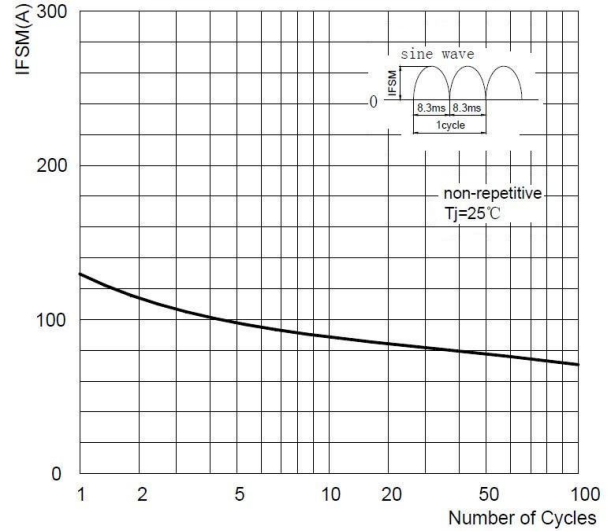


FIG3: Forward Voltage

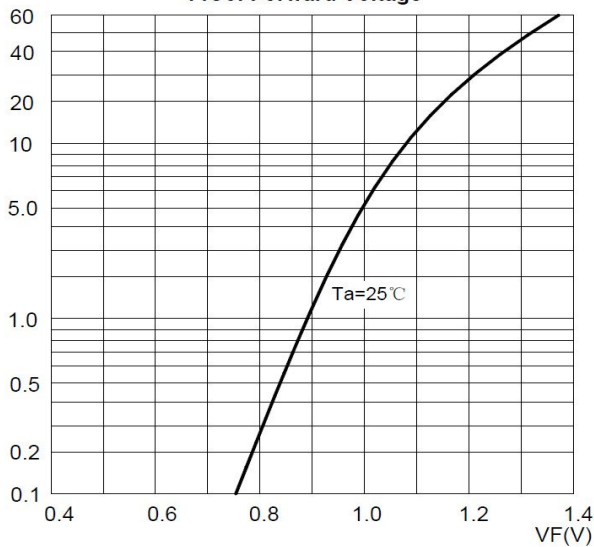


FIG4: Typical Reverse Characteristics

