

Drastic energy saving at standby and high efficiency is realized!

Three terminal IPDs of super power saving at standby

Overview

Three terminal IPDs of super power saving at standby respond to worldwide inputs and realized higher efficiency than existing three terminal IPDs (MIP2E*D series). The power consumption at standby can be made into half at the maximum.

As replacement from existing IPDs is possible, more energy saving is also possible without change of a substrate design.

These IPDs are optimum for the power supply to 60W class.

Feature

- Respond to worldwide inputs
- The power consumption at light load is cut down more.
50% reduction at the maximum than existing IPDs(MIP2E*Dseries)
(Less than 0.1W of power consumption is attained at standby.)
- Reducing external parts and high reliability are realized by built-in protection function.
- Soft start included

Applications

Adaptors, Power supply circuits

Characteristic

Power consumption at standby.

.... Comparison with existing IPDs (MIP2E*D series)

Comparison with existing IPDs
at no load

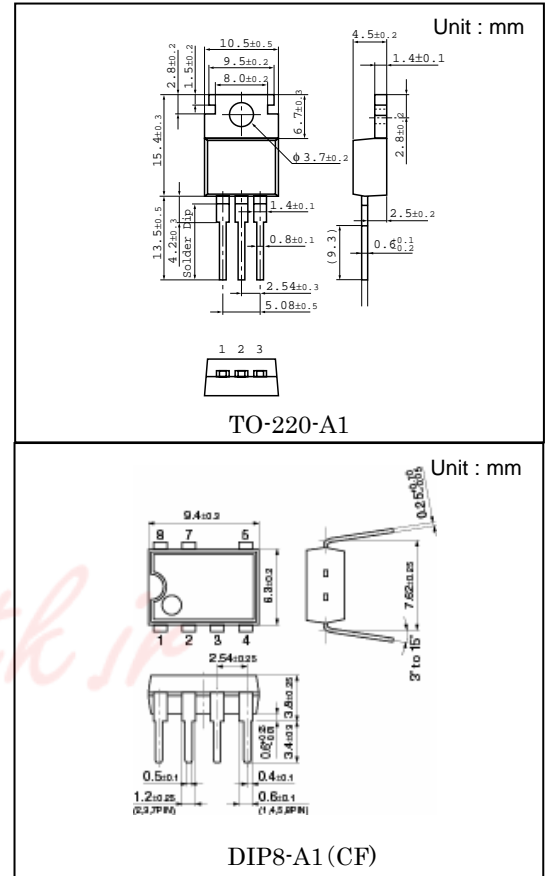
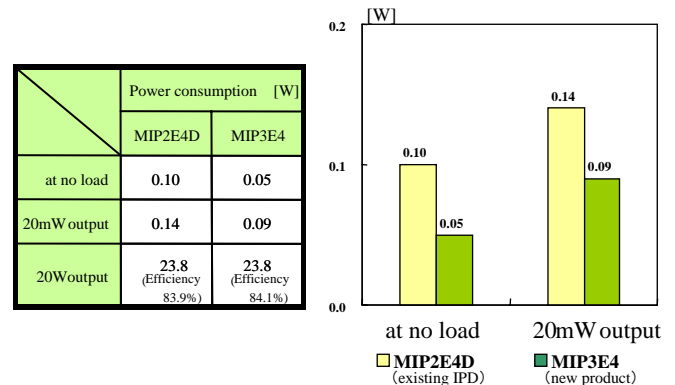
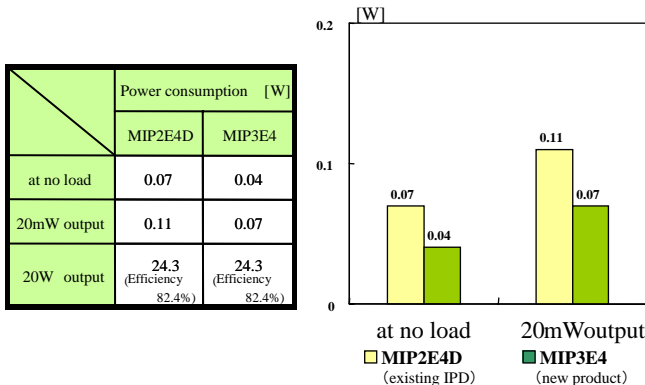
● at 100V input

➔ **43% down**

Comparison with existing IPDs
at no load

● at 264V input

➔ **50% down**



Products and specifications are subject to change without notice. Please ask for the latest Product Standards to guarantee the satisfaction of your product requirements.

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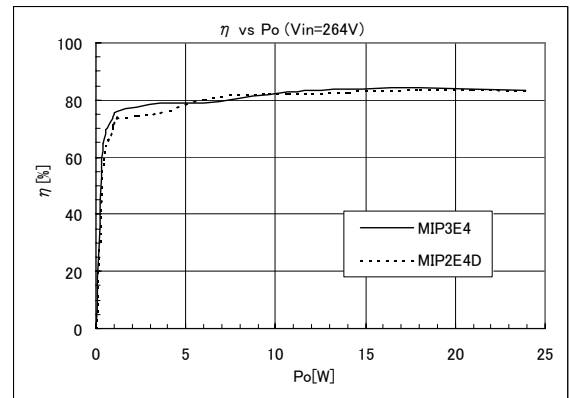
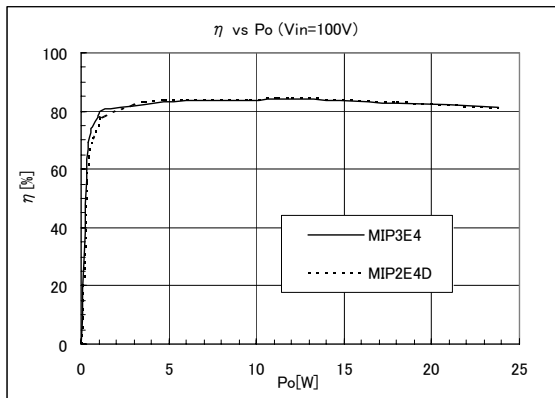
http://panasonic.co.jp/semicon

Lineup

Part number	Output power	Characteristics				Package
		V _{DSS}	I _{LIMIT}	R _{ON}	f _{osc}	
MIP3E3	10 to 20W	700V	0.80A	8Ω	100 kHz	TO-220-A1
MIP3E3S	10 to 25W		1.00A	6Ω		DIP8-A1(CF)
MIP3E4	15 to 30W		1.35A	5.2Ω		TO-220-A1
MIP3E5	20 to 40W		1.80A	4Ω		
MIP3E7	40 to 60W		2.70A	2.6Ω		

Characteristics

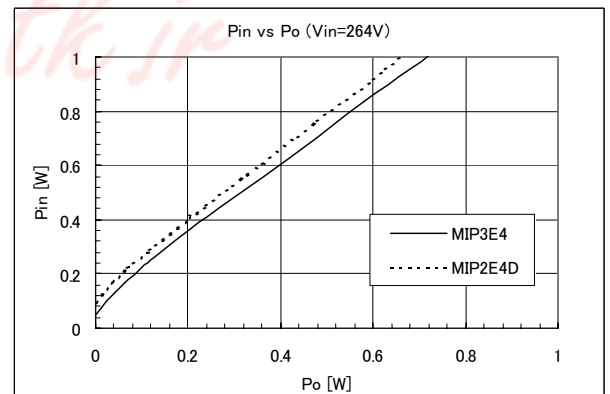
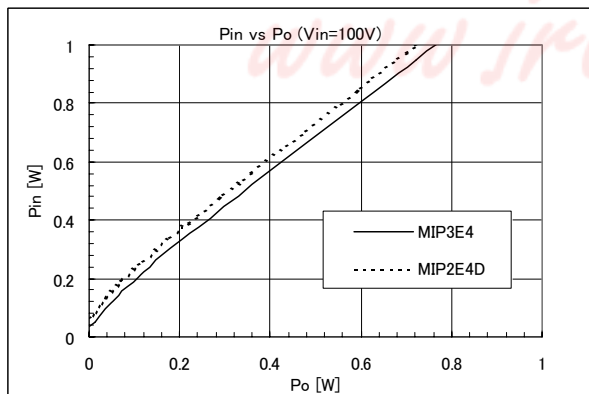
Comparison of efficiency



Vin=100V

Comparison of power consumption at light load

Vin=264V



Vin=100V

Vin=264V

The example of an application circuit

