

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.

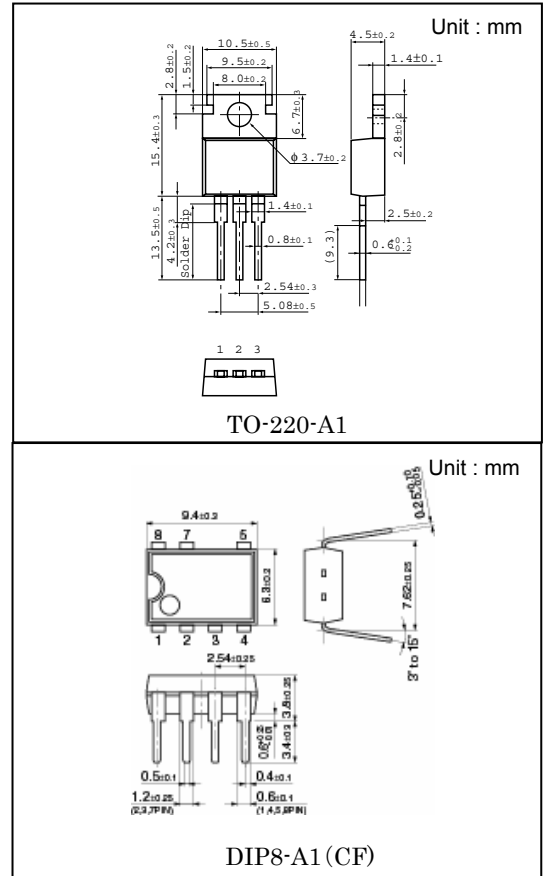
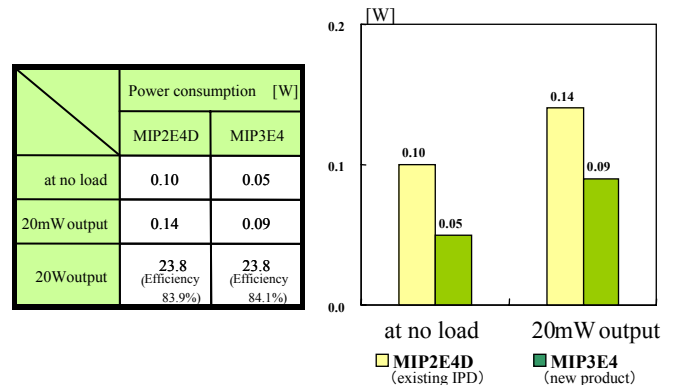
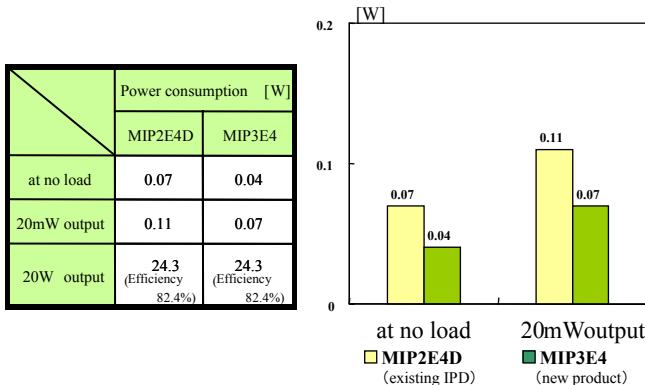
.... Comparison with existing IPDs (MIP2E*D series)

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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Semiconductor Company, Matsushita Electric Industrial Co.,Ltd.

1 Kotari-yakemachi, Nagaokakyo, Kyoto 617-8520, Japan

Tel. +81-75-951-8151

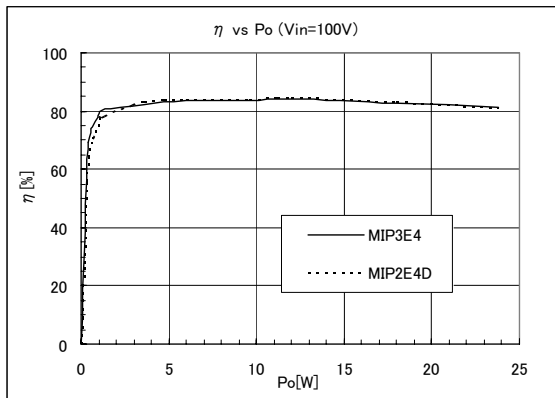
<http://panasonic.co.jp/semicon>

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 | | |

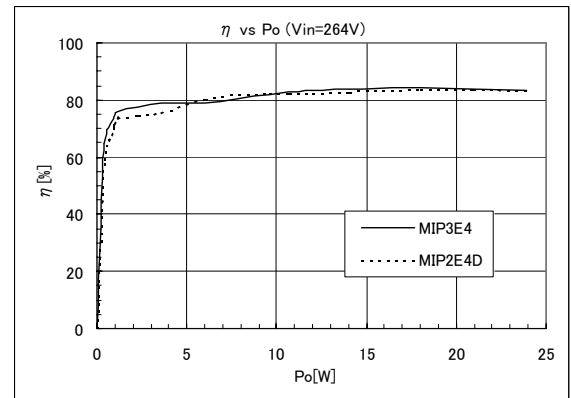
Characteristics

Comparison of efficiency

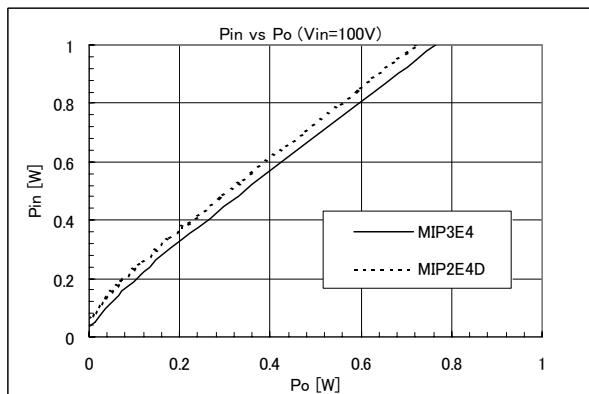


Vin=100V

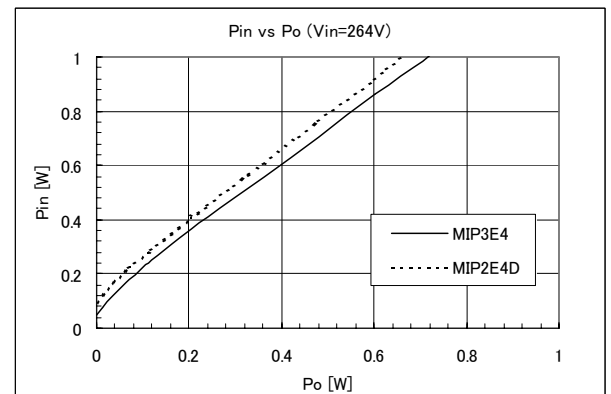
Comparison of power consumption at light load



Vin=264V



Vin=100V



Vin=264V

The example of an application circuit

