

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Have Over Voltage Protect Loop and High Reliability
- Low Voltage Continued Circuit and Protection Circuit
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance (Per Leg): 3°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD5100	MBRD5100	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

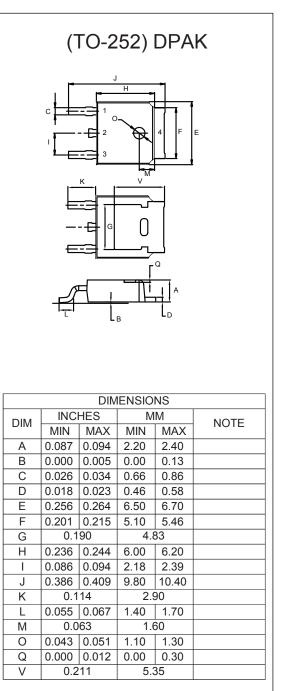
Average Forward Current	I _{F(AV)}	5.0A	T _C =115°C
Peak Forward Surge Current	I _{FSM}	80A	8.3ms,Half Sine
Maximum	V _F	0.67V(Typ)	I _F =5.0A;T _J =25°C
Instantaneous		0.72V	I _F =5.0A;T _J =25°C
Forward Voltage		0.61V	I _F =5.0A;T _J =125°C
Maximum DC Reverse	I _R	3µА(Тур)	T _J =25⁰C
Current at Rated DC		50µА	T _J =25⁰C
Blocking Voltage		5mA	T _J =125⁰C

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure:

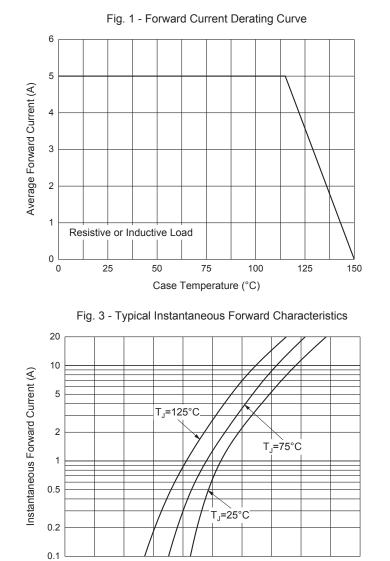
PIN 3

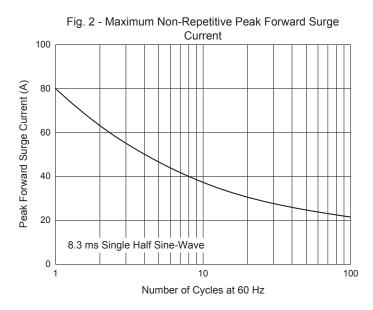
5 Amp Schottky Barrier Rectifier 100 Volts



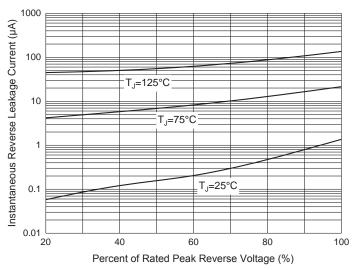


Curve Characteristics









. 0.0 0.1

0.2

0.3

0.4

0.5

Instantaneous Forward Voltage (V)

0.6

0.7

0.8

0.9

1.0



Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel	

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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