

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

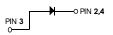
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD5100	MBRD5100	100V	70V	100V

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	3μA(Typ)	T _J =25°C
Current at Rated DC		50μA	T _J =25°C
Blocking Voltage		5mA	T _J =125°C

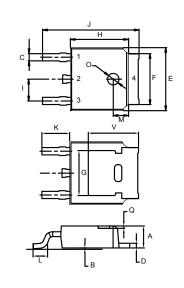
Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure:



5 Amp Schottky Barrier Rectifier 100 Volts

(TO-252) DPAK



	DIMENSIONS						
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DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
Α	0.087	0.094	2.20	2.40			
В	0.000	0.005	0.00	0.13			
С	0.026	0.034	0.66	0.86			
D	0.018	0.023	0.46	0.58			
Е	0.256	0.264	6.50	6.70			
F	0.201	0.215	5.10	5.46			
G	0.190		4.83				
Н	0.236	0.244	6.00	6.20			
I	0.086	0.094	2.18	2.39			
J	0.386	0.409	9.80	10.40			
K	0.1	14	2.9	90			
L	0.055	0.067	1.40	1.70			
М	0.0	63	1.0	60			
0	0.043	0.051	1.10	1.30			
Q	0.000	0.012	0.00	0.30			
V	0.211		5.35				



Curve Characteristics

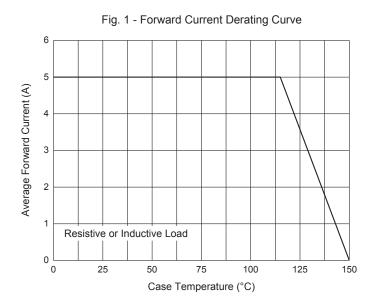
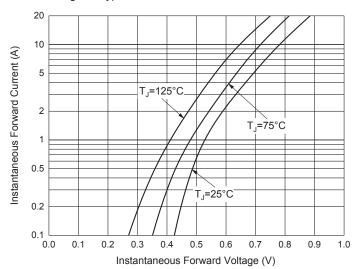


Fig. 3 - Typical Instantaneous Forward Characteristics



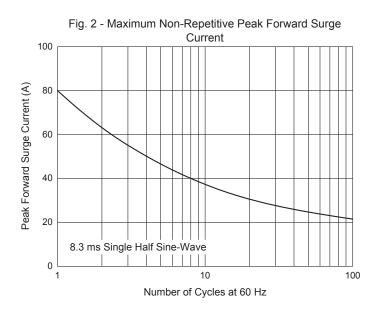
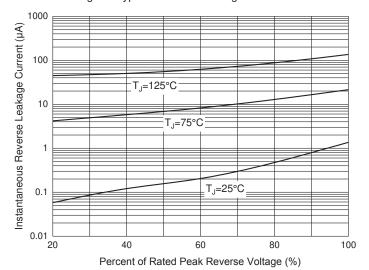


Fig. 4 - Typical Reverse Leakage Characteristics





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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