

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
- Extremely Low Forward Drop

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance (Per Leg): 3°C/W Junction to Case

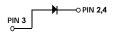
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD5100HL	5100HL	100V	70V	100V

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}	100A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.73V	I _F =5.0A;T _J =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	3.5µA 1mA	T _J =25°C T _J =125°C

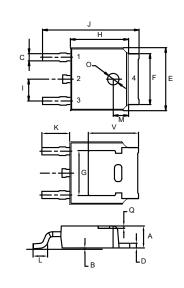
Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure:



5 Amp Schottky Barrier Rectifier 100 Volts

(TO-252) DPAK



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	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	0.114		2.90			
L	0.055	0.067	1.40	1.70		
M	0.063		1.60			
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

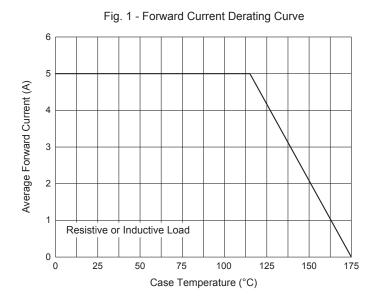


Fig. 3 - Typical Instantaneous Forward Characteristics

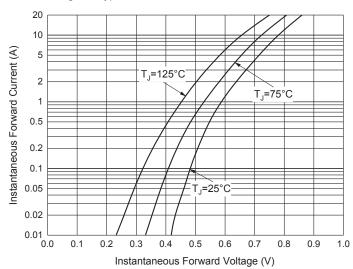


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

120

(V) 100

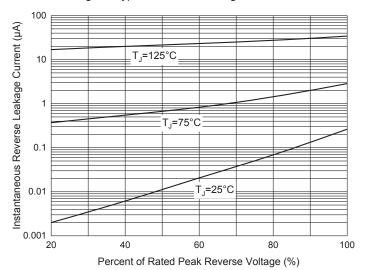
80

40

8.3 ms Single Half Sine-Wave
0
1 10 100

Number of Cycles at 60 Hz

Fig. 5 - 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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