

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note2)
- 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
MBRD845C	845C	45V	32V	45V

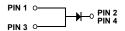
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle	I _{F(AV)}	8.0A	T _C =115°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.51V	I _F =8.0A; T _J =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA	T _J =25°C

Note:

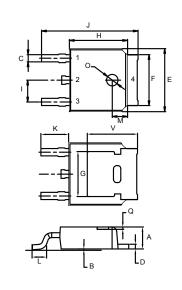
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Internal Structure:



8 Amp Schottky Barrier Rectifier 45 Volts

(TO-252) DPAK



DIMENSIONS						
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	0.114		2.90			
L	0.055	0.067	1.40	1.70		
М	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

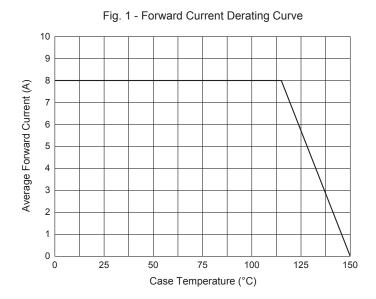


Fig. 3 - Typical Reverse Leakage Characteristics

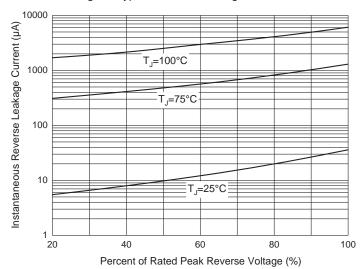


Fig. 2 - Typical Instantaneous Forward Characteristics 8.0 7.2 Instantaneous Forward Current (A) 6.4 - 7=125°C 5.6 4.8 4.0 3.2 2.4 1.6 0.8 0.0 0.1 0.2 0.3 0.5 0.6 0.7 0.9 0.4 1.0

Instantaneous Forward Voltage (V)



Ordering Information

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

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