

#### **Features**

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Current Capability, High Efficiency
- High Junction Temperature Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 2 °C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB8100H	MBRB8100H	100V	70V	100V

# Electrical Characteristics @ 25°C Unless Otherwise Specified

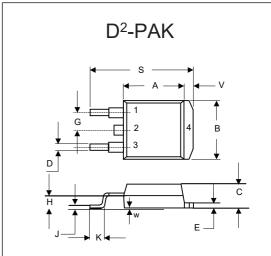
Average Rectified Forward Current	I <sub>F(AV)</sub>	8A	T <sub>C</sub> =160°C
Peak Forward Surge Current	I <sub>FSM</sub>	300A	8.3ms,Half Sine Wave
Instantaneous Forward Voltage	V <sub>F</sub>	0.70V(typ.) 0.75V(max) 0.65V(max)	$I_F=8A; T_J=25^{\circ}C$ $I_F=8A; T_J=25^{\circ}C$ $I_F=8A; T_J=125^{\circ}C$
Maximum Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.01mA 10mA	T <sub>J</sub> =25°C T <sub>J</sub> =125°C

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

#### **Internal Structure**

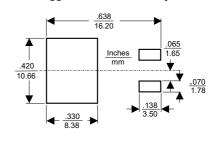


# 8 Amp Schottky Barrier Rectifier 100 Volts



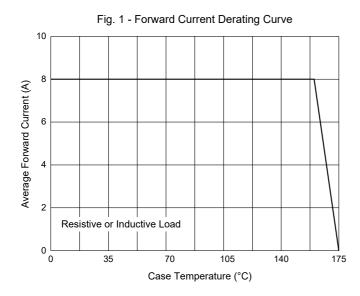
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.331	0.370	8.40	9.40		
В	0.378	0.417	9.60	10.60		
С	0.165	0.189	4.20	4.80		
D	0.027	0.037	0.68	0.94		
E	0.045	0.055	1.14	1.40		
G	0.010		2.54		TYP.	
Н	0.096	0.134	2.43	3.40		
J	0.011	0.025	0.28	0.64		
K	0.071	0.131	1.80	3.32		
S	0.575	0.625	14.60	15.87		
V	0.042	0.058	1.07	1.47		
W	0.000	0.010	0.00	0.25		

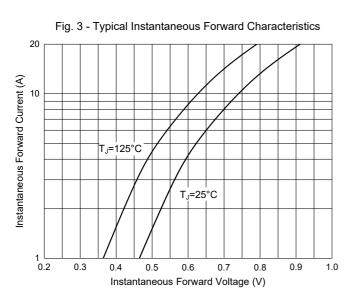
# Suggested Solder Pad Layout

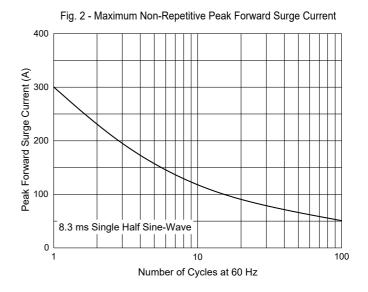


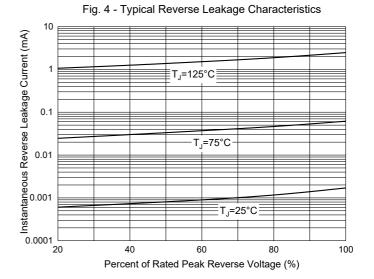


## **Curve Characteristics**









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## **Ordering Information**

Device	Packing		
Part Number-TP	Tape&Reel: 800pcs/Reel		
Part Number-BP	Tube: 5Kpcs/Ctn		

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

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