

Features

- High Frequency Operation
- Halogen Free. "Green" Device (Note 1)
- High Junction Temperature Capability
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- 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
MBRB30100CTH	MBRB30100CTH	100V	70V	100V
MBRB30150CTH	MBRB30150CTH	150V	105V	150V
MBRB30200CTH	MBRB30200CTH	200V	140V	200V

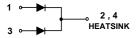
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	30A	T _C =110°C
Peak Forward Surge Current	I _{FSM}	250A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage MBRB30100CTH MBRB30150CTH MBRB30200CTH		0.80V 0.85V 0.90V	I _{FM} =15A T _A =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.01mA 5mA	T _A =25°C; T _A =125°C
Typical Junction Capacitance	CJ	350pF	Measured at 1.0MHz, V _R =4.0V

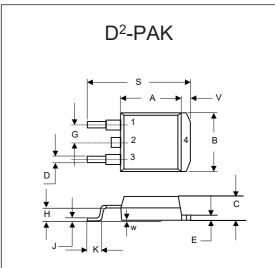
Note:

- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High temperature solder exemption applied, see EU directive annex 7a.

Internal Structure



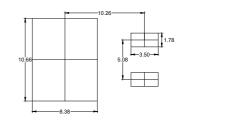
30 Amp Schottky Barrier Rectifier 100 to 200 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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	
Е	0.045	0.055	1.14	1.40	
G	0.10		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	

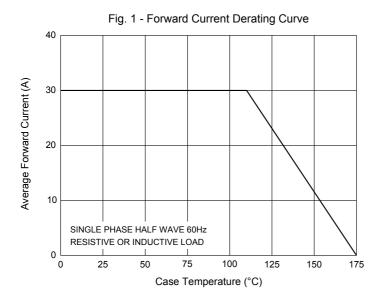
Suggested Solder Pad Layout

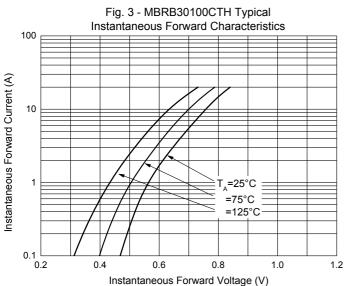
Unit:m

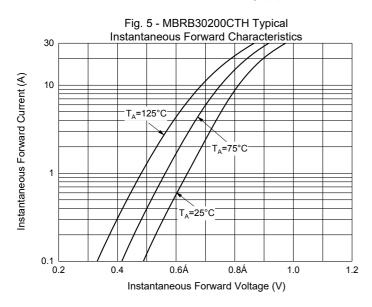


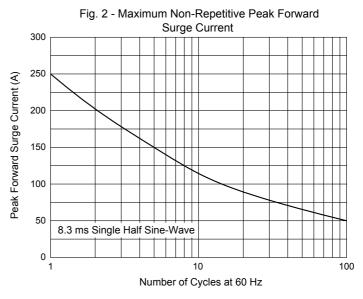


Curve Characteristics









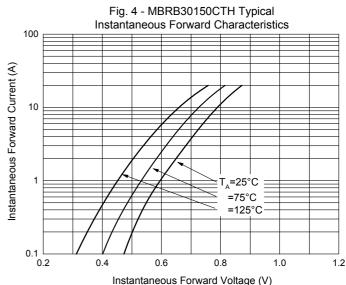
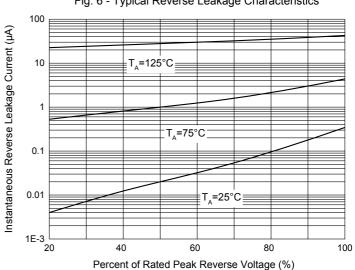


Fig. 6 - Typical Reverse Leakage Characteristics





Ordering Information

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

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