

Features

- · High Frequency Operation
- · High Current Capability, High Efficiency
- 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: 5°C/W Junction to Case
- Typical Thermal Resistance: 22°C/W Junction to Ambient(Note 3)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD10100CTH	MBRD10100CTH	100V	70V	100V
MBRD10150CTH	MBRD10150CTH	150V	105V	150V
MBRD10200CTH	MBRD10200CTH	200V	140V	200V

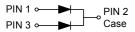
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	10A	T _C =130°C
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage MBRD10100CTH MBRD10150CTH MBRD10200CTH MBRD10200CTH	V _F	0.8V 0.85V 0.9V 0.84V	I _{FM} =5A; T _J =25°C I _{FM} =5A; T _J =25°C I _{FM} =5A; T _J =25°C I _{FM} =5A; T _J =125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.01mA 5mA	T _J =25°C; T _J =125°C
Typical Junction Capacitance	CJ	100pF	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.

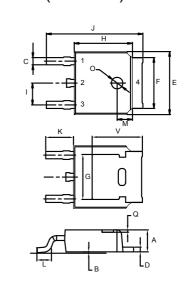
- 2. High temperature solder exemption applied, see EU directive annex 7a.
- 3.Test with 2in. Al board.

Internal Structure:



10 Amp Schottky Barrier Rectifier 100 to 200 Volts

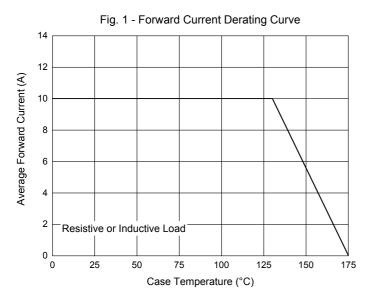
(TO-252) DPAK

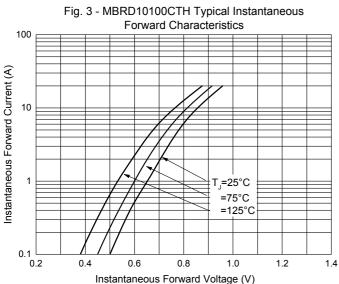


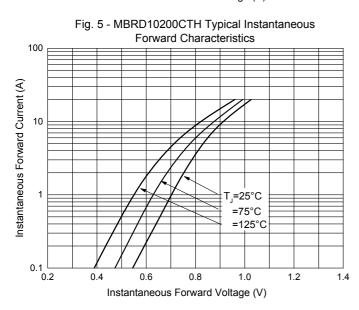
DW IT VOICE VO						
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.087	0.094	2.20	2.40		
В	0.000	0.005	0.00	0.13		
С	0.026	0.034	0.66	0.86		
D	0.018	0.023	0.46	0.58		
E	0.256	0.264	6.50	6.70		
F	0.201	0.215	5.10	5.46		
G	0.190		4.83			
Н	0.236	0.244	6.00	6.20		
ı	0.086	0.094	2.18	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			

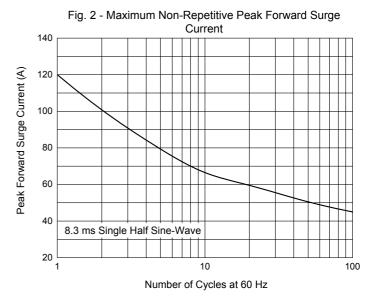


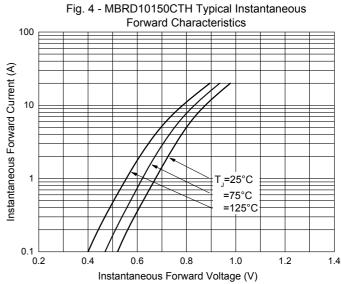
Curve Characteristics

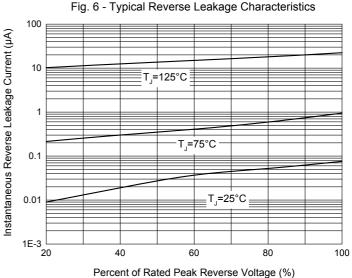












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Ordering Information

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

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