

### Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Pb-Free Package
- Extremely Fast Switching
- Extremely Low Forward Drop
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)

## **Maximum Ratings**

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 5°C/W Junction to Case

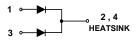
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD10150CT	10150	150V	105V	150V
MBRD10200CT	10200	200V	140V	200V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

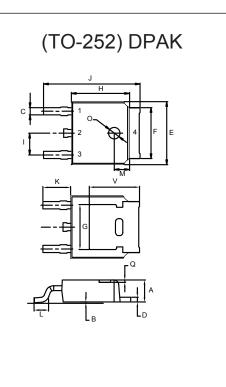
Max average forward rectified current	I <sub>F(AV)</sub>	10A	T <sub>C</sub> = 110°C
Max surge current	I <sub>FSM</sub>	100A	8.3ms,Half Sine
Peak Forward Voltage	$V_{FM}$	0.92V 0.80V	I <sub>FM</sub> =5.0A;T <sub>J</sub> =25°C I <sub>FM</sub> =5.0A;T <sub>J</sub> =125°C
Peak Reverse Current	I <sub>RM</sub>	0.01mA 1mA	Tյ=25⁰C Tյ=125⁰C

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

### Internal Structure:







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	0.1	90	4.8	83	
Н	0.236	0.244	6.00	6.20	
Ι	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
Κ	0.1	14	2.9	90	
L	0.055	0.067	1.40	1.70	
Μ	0.0	63	1.0	60	
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.2	11	5.	35	



# **Curve Characteristics**

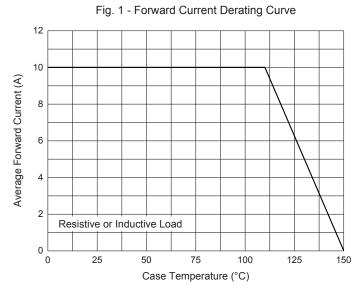
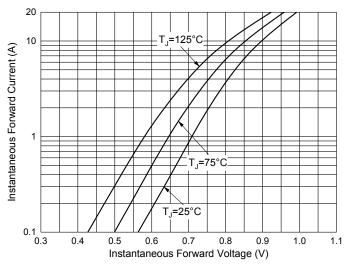
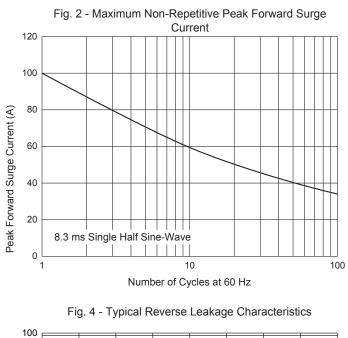
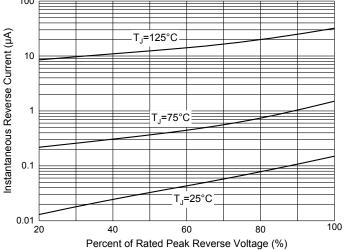


Fig. 3 - Typical Instantaneous Forward Characteristics









## **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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