

Features

- · High Surge Forward Current Capability
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates RoHS 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 +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance : 5.0°C/W Junction to Case

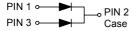
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD2060CT	MBRD2060CT	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	20A	T _C =120°C
Peak Forward Surge Current	I _{FSM}	125A	8.3ms,Half Sine
Current Squared Time	l²t	65A ² S	1ms≤t<8 .3ms T _J =25°C, Ratin g of Per Diode
Maximum Instantaneous Forward Voltage	V _F	0.75V	I _{FM} =10A; T _A =25°C
Maximum Peak Reverse Current	I _R	0.2mA 50mA	T _A =25°C; T _A =125°C

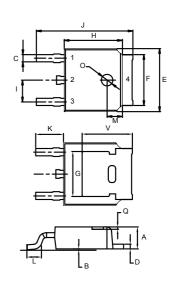
Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure



20 Amp Schottky Barrier Rectifier 60 Volts

(TO-252) DPAK



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOIL		
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	K 0.114		2.90				
L	0.055	0.067	1.40	1.70			
М	M 0.063		1.60				
0	0.043	0.051	1.10	1.30			
Q	0.000	0.012	0.00	0.30			
V	V 0.211		5.3	35			



Curve Characteristics

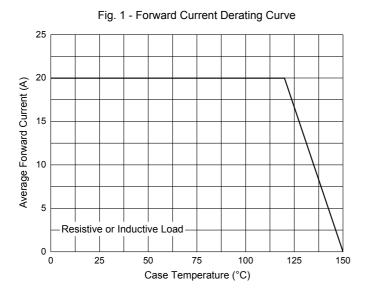


Fig. 3 - Typical Instantaneous Forward Characteristics

20

T_A=25°C

=125°C

10

0.0

0.2

0.4

0.6

0.8

1.0

Instantaneous Forward Voltage (V)

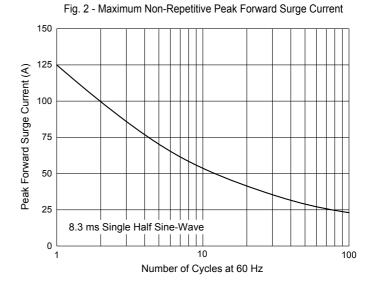
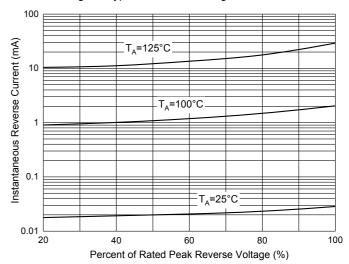


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Bulk:2.5Kpcs/Box	

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

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