

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- 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 : 2.0°C/W Junction to Case

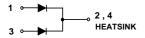
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB20100CTH	MBRB20100CTH	100V	70V	100V
MBRB20150CTH	MBRB20150CTH	150V	105V	150V
MBRB20200CTH	MBRB20200CTH	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

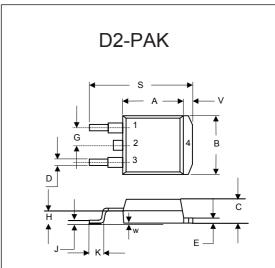
Average Rectified Forward Current	I _{F(AV)}	20A	T _C =140°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage			
MBRB20100CTH MBRB20150CTH MBRB20200CTH	V_{F}	0.80V 0.85V 0.90V	I _F =10A; T _A =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	10µA 2mA	T _A =25°C T _A =125°C
Typical Junction Capacitance			
MBRB20100CTH MBRB20150CTH MBRB20200CTH	C_J	270pF 210pF 160pF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure:

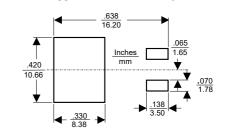


20 Amp Schottky Barrier Rectifier 100 to 200 Volts



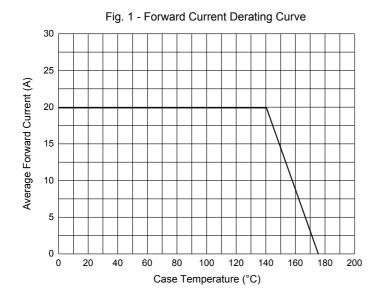
	DIMENSIONS				
DIM IN		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	INOTE
Α	0.331	0.370	8.40	9.40	
В	0.378	0.417	9.60	10.60	
С	0.165	0.189	4.20	4.80	
D	0.027	0.037	0.68	0.94	
Е	0.045	0.055	1.14	1.40	
G	0.0	010	2.	54	TYP.
Н	0.096	0.134	2.43	3.40	
J	0.011	0.025	0.28	0.64	
K	0.071	0.131	1.80	3.32	
S	0.575	0.625	14.60	15.87	
V	0.042	0.058	1.07	1.47	
W	0.000	0.010	0.00	0.25	

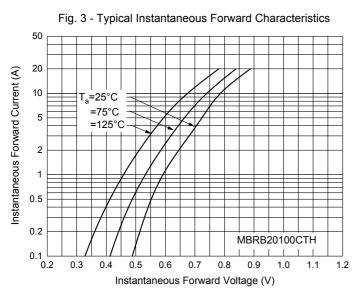
Suggested Solder Pad Layout

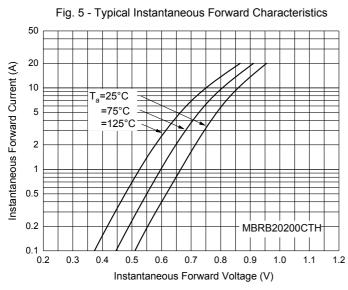


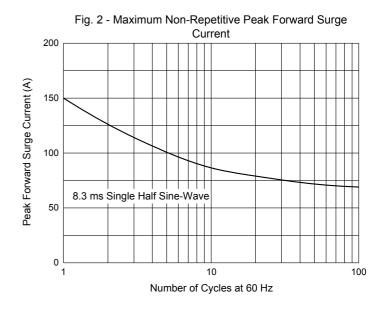


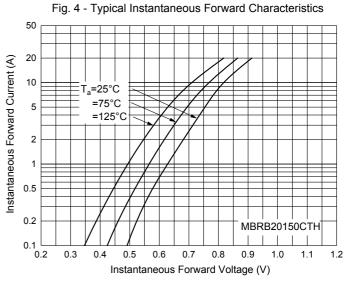
Curve Characteristics

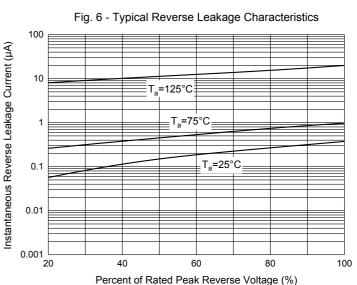












Rev.3-2-08272020 2/3 MCCSEMI.COM



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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Rev.3-2-08272020 3/3 MCCSEMI.COM