

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Guard Ring For Transient Protection
- Low Forward Voltage Drop
- · High Current Capability, High Efficiency
- Low Power Loss
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°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
MBRB1620CT	MBRB1620CT	20V	14V	20V
MBRB1630CT	MBRB1630CT	30V	21V	30V
MBRB1635CT	MBRB1635CT	35V	24.5V	35V
MBRB1640CT	MBRB1640CT	40V	28V	40V
MBRB1645CT	MBRB1645CT	45V	31.5V	45V
MBRB1660CT	MBRB1660CT	60V	42V	60V

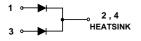
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	16A	T _C =90°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine
Maximum Forward Voltage Drop Per Element			
MBRB1620CT-1645CT MBRB1660CT MBRB1620CT-1645CT MBRB1660CT	V _F	0.70V 0.80V 0.57V 0.70V	I _{FM} =8A; T _J =25°C T _J =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 10mA	T _J =25°C T _J =100°C
Typical Junction Capacitance MBRB1620CT-1645CT MBRB1660CT	CJ	300pF	Measured at 1.0MHz, V _R =4.0V

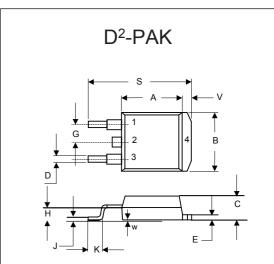
^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 7a.

Internal Structure

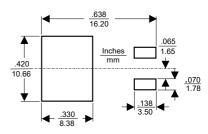


16 Amp Schottky Barrier Rectifier 20 to 60 Volts



	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		
E	0.045	0.055	1.14	1.40		
G	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

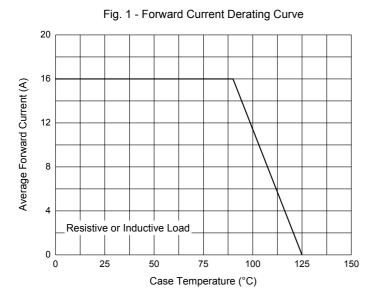
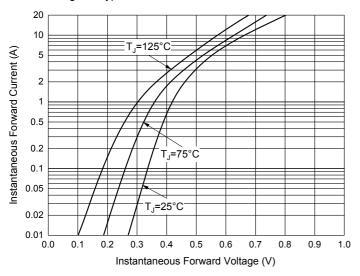


Fig. 3 - Typical Instantaneous Forward Characteristics



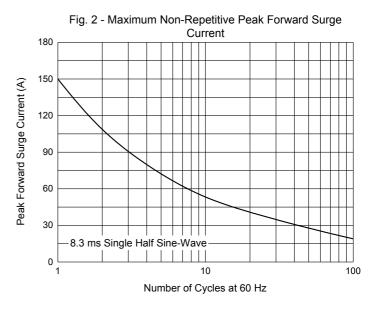
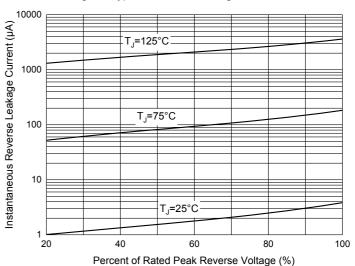


Fig. 4 - Typical Reverse Leakage Characteristics





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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