

Features

- High Current Capability and High Efficiency
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 2 °C/W Junction to Case

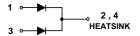
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRB3030CT	MBRB3030CT	30V	21V	30V
MBRB3040CT	MBRB3040CT	40V	28V	40V
MBRB3045CT	MBRB3045CT	45V	31.5V	45V
MBRB3060CT	MBRB3060CT	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

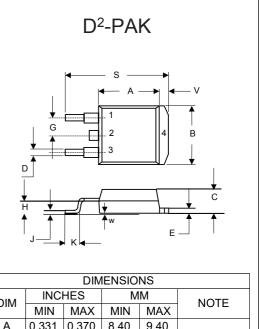
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Average Forward Current	I _{F(AV)}	30A	T _C =110⁰C	
Peak Forward Surge Current	I _{FSM}	250A	8.3ms,Half Sine	
Maximum Instantaneous Forward Voltage MBRB3030CT-3045CT MBRB3060CT	V _F	0.60V 0.72V	I _{FM} =15A; T _J =25⁰C	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 10mA	Tյ=25⁰C Tյ=125⁰C	
Typical Junction Capacitance	CJ	420pF	Measured at 1.0MHz, V _R =4.0V	

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

Internal Structure

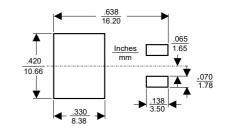


30 Amp Schottky Barrier Rectifier 30 to 60 Volts



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

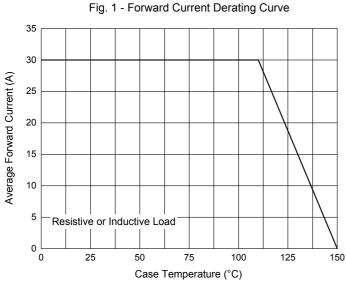


Fig. 3 - Typical Instantaneous Forward Characteristics

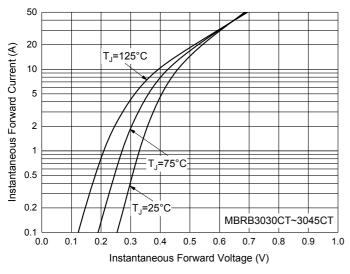
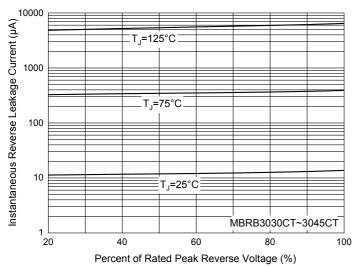


Fig. 5 - Typical Reverse Leakage Characteristics



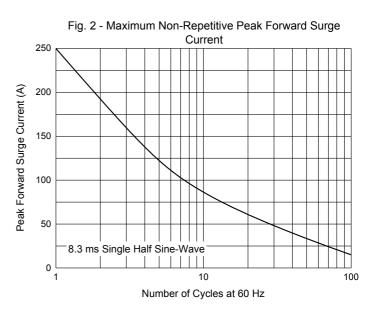


Fig. 4 - Typical Instantaneous Forward Characteristics

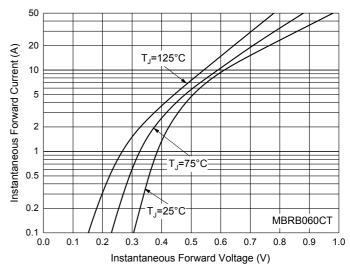
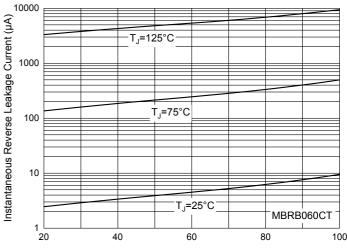


Fig. 6 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)



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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