

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Low Power Loss, High Efficiency
- Low VF,Low IR
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates 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 +200°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 2.0°C/W Junction to Case

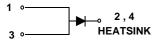
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRBL2045C	MBRBL2045C	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	20A	T _C =160°C
Peak Forward Surge Current	I _{FSM}	300A	8.3ms,half sine
Maximum Instantaneous Forward Voltage	V _F	0.53V	I _{FM} =20A T _J =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.1mA 20mA	Tյ=25°C Tյ=125°C

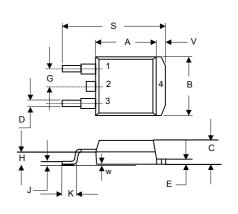
Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a.

Internal Structure



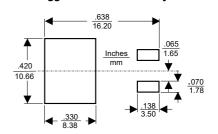
20 Amp Schottky Barrier Rectifier 45 Volts

D²-PAK



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	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		
Е	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

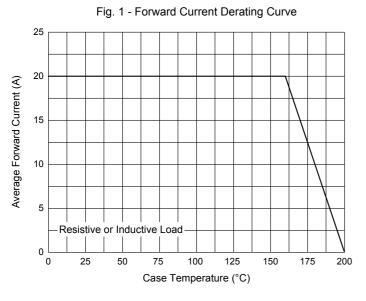
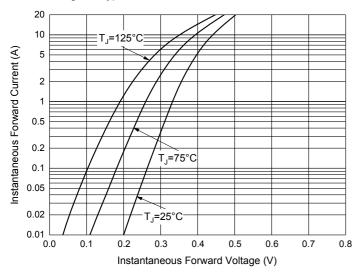


Fig. 3 - Typical Instantaneous Forward Characteristics



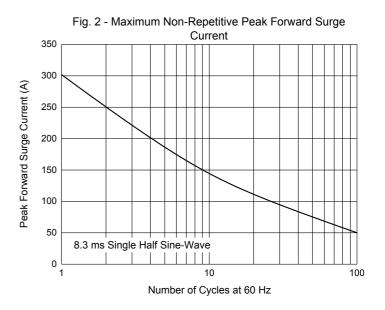
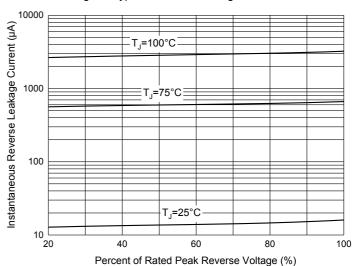


Fig. 4 - Typical Reverse Leakage Characteristics





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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