

Features

- Multilayer Metal -Silicon Potential Structure.
- High Junction Temperature Capability
- Low Power Loss, High Efficiency
- High Surge Capacity , High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)

40 Amp Schottky Barrier Rectifier 100 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 0.5°C/W Junction to Case

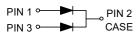
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MBR40100PTH	MBR40100PTH	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

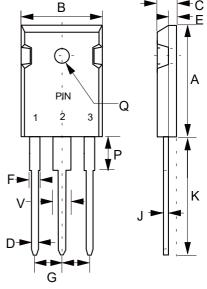
Average Forward Current	I _{F(AV)}	40A	T _C = 150°C
Peak Forward Surge Current	I _{FSM}	400A	8.3ms,Half Sine Wave
Instantaneous Forward Voltage	V _F	0.78V(Typ.) 0.83V(Max.) 0.66V(Typ.) 0.73V(Max.)	I _F =20A; T _J =25°C I _F =20A; T _J =25°C I _F =20A; T _J =125°C I _F =20A; T _J =125°C
Maximum Reverse Current at Rated DC Blocking Voltage	I _R	0.01mA 3mA	T _J =25°C T _J =125°C
Typical Junction Capacitance	CJ	425pF	f=1.0MHz,V _R =4V

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

Internal Structure



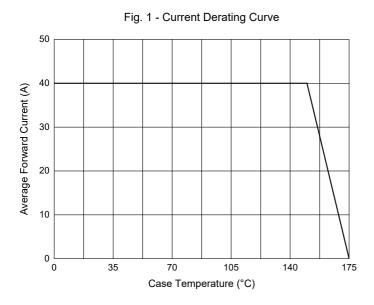
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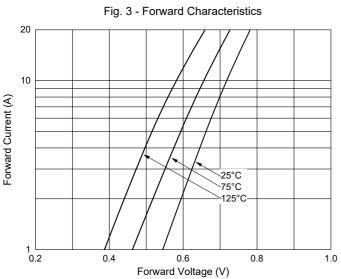


DIMENSIONS						
5114	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	0.787	0.866	20.00	22.00		
В	0.598	0.638	15.20	16.20		
С	0.185	0.208	4.70	5.30		
D	0.035	0.059	0.90	1.50		
Е	0.059	0.094	1.50	2.40		
F	0.067	0.091	1.70	2.30		
J	0.019	0.031	0.48	0.80		
K	0.748	0.833	19.00	21.15		
Р	0.122	0.189	3.10	4.80		
Q	0.118	0.150	3.00	3.80	Ф	
V	0.106	0.134	2.70	3.40		
G	0.197	0.224	5.00	5.70		



Curve Characteristics





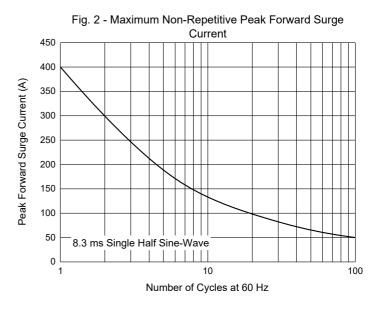
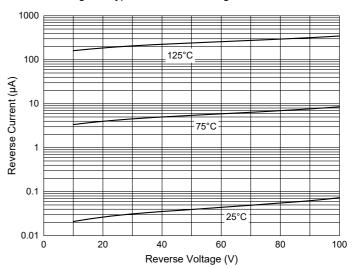


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-BP	Tube:30pcs/Tube, 360pcs/Box,1.8K/Ctn;	

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

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