

Features

- Guard Ring For Transient Protection
- High Current Capability, High Efficiency
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance : 4.0°C/W Junction to Case

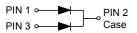
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage
MBR20100FCTS	MBR20100FCTS	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

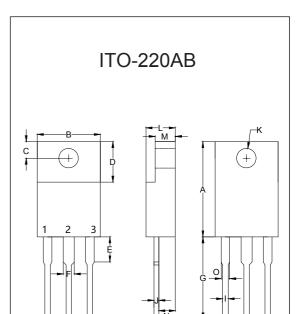
Average Forward Current	I _{F(AV)}	20A	T _C =100°C
Peak Forward Surge Current	I _{FSM}	130A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.85V 0.82V(Typ.) 0.91V(Typ.)	I _{FM} =10A;T _J =25°C I _{FM} =20A;T _J =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.01mA 10mA	T _J =25°C T _J =125°C
Typical Junction Capacitance	CJ	175pF	Measured at 1.0MHz, VR=4.0V

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

Internal Structure



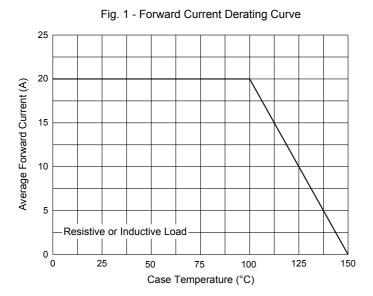
20 Amp Schottky Barrier Rectifier 100 Volts

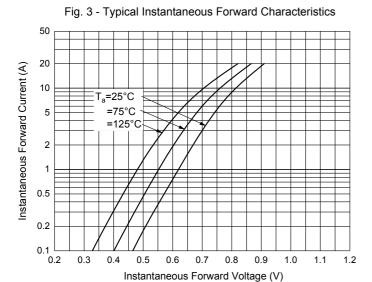


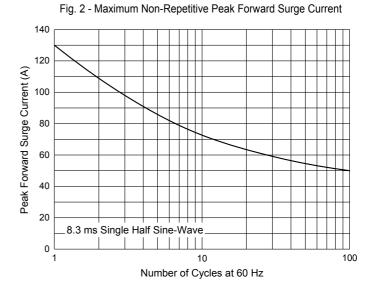
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	0.567	0.642	14.40	16.30		
В		0.421		10.70		
С	0.085	0.128	2.15	3.25		
D	0.248	0.272	6.30	6.90		
E		0.177		4.50		
F		0.071		1.80		
G	0.500	0.539	12.70	14.20		
Н	0.100		2.55			
I		0.035		0.90		
J		0.032		0.80		
K	0.102	0.150	2.60	3.80	Ф	
L		0.201		5.10		
М		0.140		3.56		
Ν	0.083	0.126	2.10	3.20		
0		0.071		1.80		

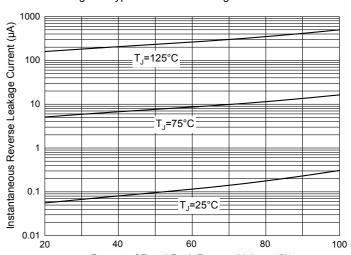


Curve Characteristics









Percent of Rated Peak Reverse Voltage (%)

Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing	
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton	

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

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