

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Frequency Operation
- Low Forward Voltage
- 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 + 125°C(20V~45V)
- Operating Junction Temperature Range: -55°C to + 150°C(50V~60V)
- Storage Temperature Range: -55°C to +150°C
- Typical thermal resistance: 3°C/W Junction to Case

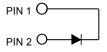
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR1520F	MBR1520F	20V	14V	20V
MBR1530F	MBR1530F	30V	21V	30V
MBR1540F	MBR1540F	40V	28V	40V
MBR1545F	MBR1545F	45V	31.5V	45V
MBR1550F	MBR1550F	50V	35V	50V
MBR1560F	MBR1560F	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

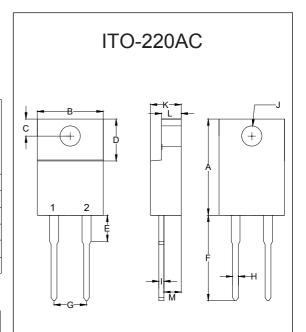
Average Forward Current	I _{F(AV)}	15A	See Fig 1		
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine		
Maximum Instantaneous Forward Voltage 1520F-1545F 1550F-1560F	V _F	0.63V 0.75V	I _{FM} =15A T _J =25°C		
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 10mA	T _J =25°C; T _J =100°C		

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

Internal Structure



15 Amp Schottky Barrier Rectifier 20 to 60 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.567	0.606	14.40	15.40	
В		0.406		10.30	
С	0.100	0.112	2.55	2.85	
D	0.248	0.272	6.30	6.90	
E		0.161		4.10	
F	0.500	0.543	12.70	13.80	
G	0.200		5.10		
Н		0.035		0.90	
ı		0.032		0.80	
J	0.102	0.134	2.60	3.40	Ф
K		0.189		4.80	
L		0.123		3.10	
М	0.098	0.114	2.50	2.90	



Curve Characteristics

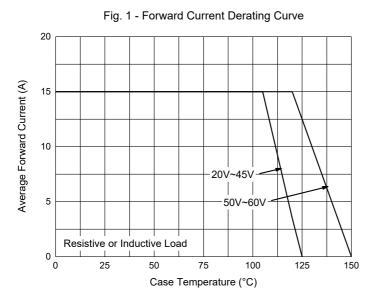
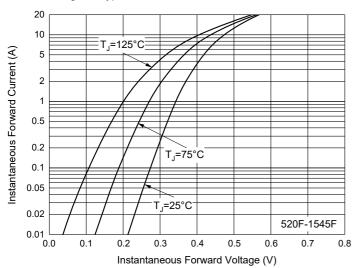


Fig. 3 - Typical Instantaneous Forward Characteristics



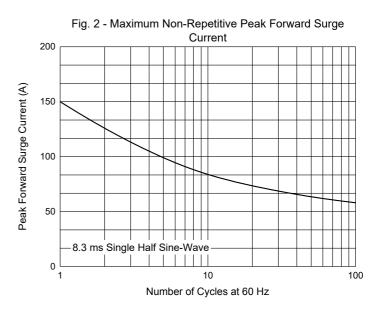
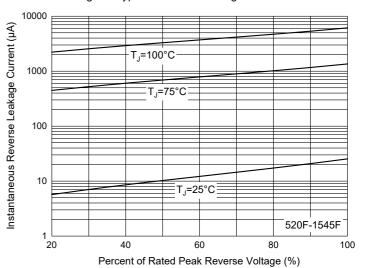


Fig. 4 - Typical Reverse Leakage Characteristics





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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