

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Current Capability and High Efficiency
- Epoxy Meets UL 94 V-0 Flammability RatingIsolated Package: ITO-220AC

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 4°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR1545FA	MBR1545FA	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

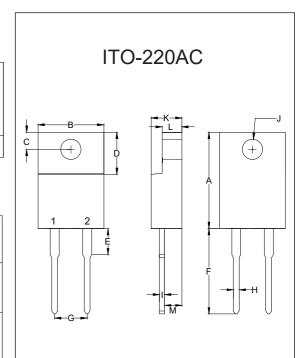
Average Rectified Forward Current	I _{F(AV)}	15A	T _C =115°C	
Peak Forward Surge Current	I _{FSM}	250A	8.3ms,Half Sine Wave	
Maximum Instantaneous Forward Voltage	V _F	0.55V(Typ) 0.60V(Max) 0.52V(Typ) 0.57V(Max)	I _F =15A T _J =125°C	
DC Reverse Current at Rated DC Blocking Voltage	I _R	25µA(Typ) 0.2mA(Max) 40mA(Max)	T _J =25°C T _J =25°C T _J =125°C	
Typical Junction Capacitance	CJ	635pF	Measured at 1.0MHz , V _R =4.0V	
Isolation Voltage	V _{AC}	2000V		

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

Internal Structure

PIN 1 • PIN 2 • PIN 2

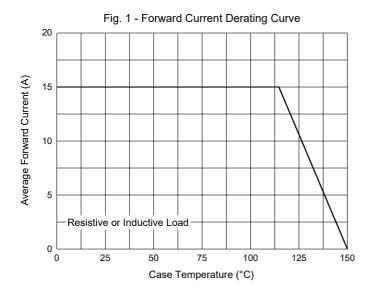
15 Amp Schottky Barrier Rectifier 45 Volts

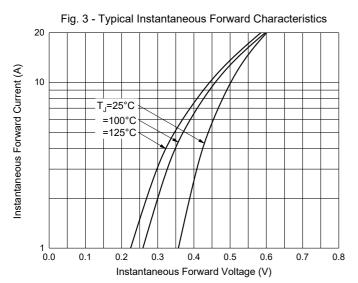


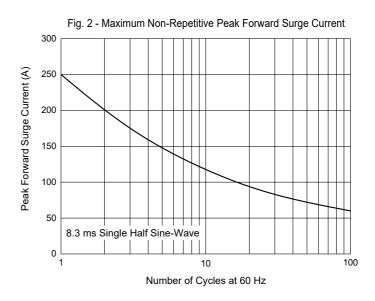
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.567	0.606	14.40	15.40			
В		0.406		10.30			
С	0.100	0.112	2.55	2.85			
D	0.248	0.272	6.30	6.90			
Е		0.161		4.10			
F	0.500	0.543	12.70	13.80			
G	0.200		5.10				
Η		0.035		0.90			
I		0.032		0.80			
J	0.102	0.134	2.60	3.40	Ф		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

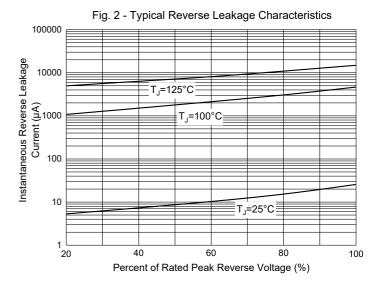


Curve Characteristics











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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