

Features

- High Junction Temperature Capability
- High Forward Surge Current Capability
- 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

15 Amp Super Fast Recovery Rectifier 1200 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistence: 2.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR15120H	MUR15120H	1200V	840V	1200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I _{F(AV)}	15A	T _C =135°C
Peak Forward Surge Current	I _{FSM}	280A	8.3ms,Half Sine Wave
Maximum Instantaneous Forward Voltage	V _F	2.9V(Typ) 3.2V(Max) 2.8V(Max)	I _F =15A ;T _J =25°C I _F =15A ;T _J =25°C I _F =15A ;T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	0.01mA 0.5mA	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time	t _{rr}	50ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A

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

Internal Structure



TO-220AC

DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.560	0.625	14.22	15.88		
В	0.380	0.420	9.65	10.67		
С	0.100	0.135	2.54	3.43		
D	0.230	0.270	5.84	6.86		
F		0.250		6.35		
G	0.500	0.580	12.70	14.73		
Н	0.190	0.210	4.83	5.33		
I	0.020	0.045	0.51	1.14		
J	0.012	0.025	0.30	0.64		
K	0.139	0.161	3.53	4.09	Ф	
L	0.140	0.190	3.56	4.83		
М	0.045	0.055	1.14	1.40		
N	0.080	0.115	2.03	2.92		



Curve Characteristics

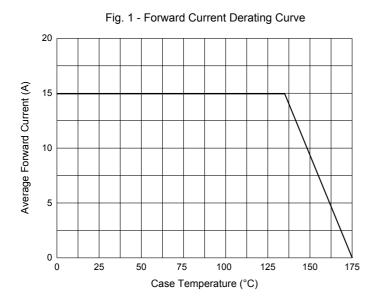
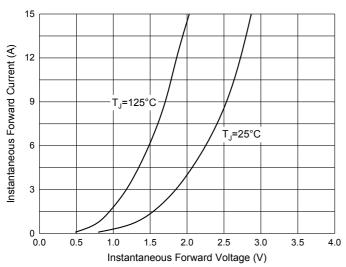


Fig. 3 - Typical Instantaneous Forward Characteristics



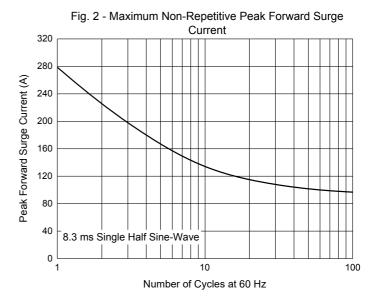
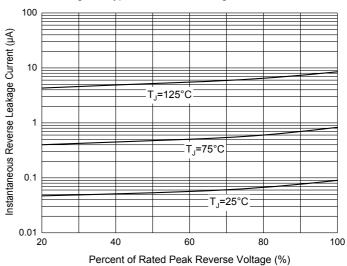


Fig. 4 - Typical Reverse Leakage Characteristics





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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