

# 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

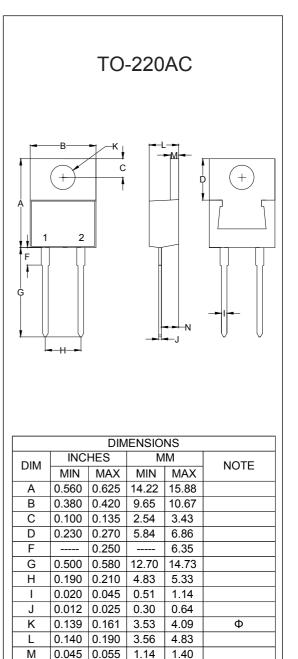
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I <sub>F(AV)</sub>	15A	T <sub>C</sub> =135⁰C
Peak Forward Surge Current	I <sub>FSM</sub>	280A	8.3ms,Half Sine Wave
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	2.9V(Typ) 3.2V(Max) 2.8V(Max)	I <sub>F</sub> =15A ;T <sub>J</sub> =25°C I <sub>F</sub> =15A ;T <sub>J</sub> =25°C I <sub>F</sub> =15A ;T <sub>J</sub> =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.01mA 0.5mA	T <sub>J</sub> =25°C; T <sub>J</sub> =125°C
Maximum Reverse Recovery Time	t <sub>rr</sub>	50ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>RR</sub> =0.25A

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

Internal Structure

PIN 1 • CASE



0.080 0.115

Ν

2.03

2.92



# **Curve Characteristics**

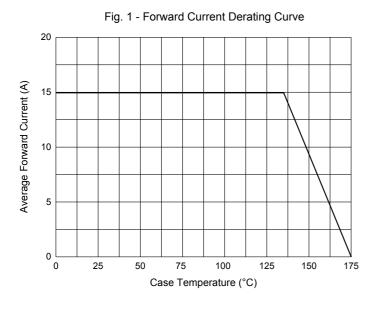
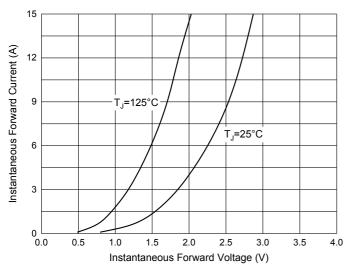


Fig. 3 - Typical Instantaneous Forward Characteristics



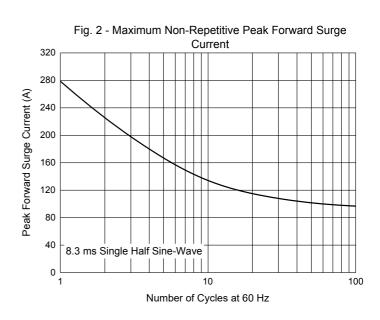
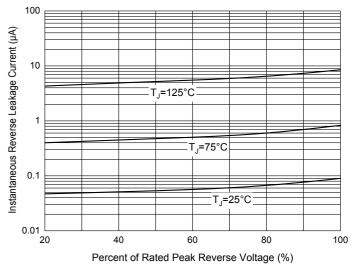


Fig. 4 - Typical Reverse Leakage Characteristics





# **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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