

## **Features**

- Super Fast Switching For High Efficiency.
- Low Reverse Leakage
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 2.5°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
MUR1560FH	MUR1560FH	600V	420V	600V

# Electrical Characteristics @ 25°C Unless Otherwise Specified

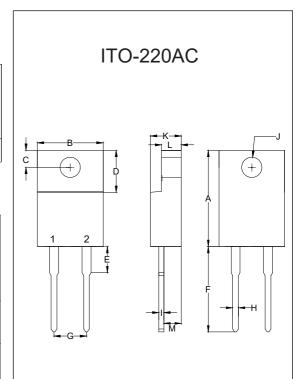
Average Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle	I <sub>F(AV)</sub>	15A	T <sub>C</sub> =110°C
Peak Forward Surge Current	I <sub>FSM</sub>	180A	8.3ms,Half Sine Wave
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.99V(Typ) 0.90V(Max) 1.23V(Typ) 1.15V(Max) 1.55V(Typ) 1.65V(Max) 1.40V(Max)	I <sub>F</sub> =5A; T <sub>J</sub> =25°C I <sub>F</sub> =5A; T <sub>J</sub> =125°C I <sub>F</sub> =15A; T <sub>J</sub> =25°C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	3μA 0.1mA	T <sub>J</sub> =25°C T <sub>J</sub> =125°C
Maximum Reverse Recovery Time	t <sub>rr</sub>	35ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>REC</sub> =0.25A

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

### Internal Structure

PIN 1 OPEN 2 OPEN 2

# 15 Amp Super Fast Recovery Rectifier 600 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			
Н		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**

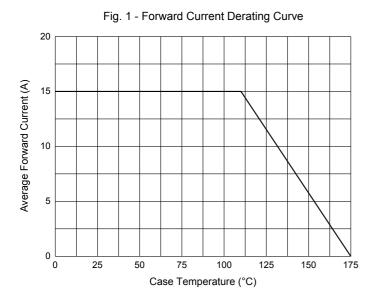


Fig. 3 - Reverse Leakage Characteristics

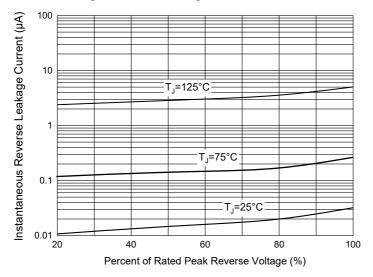


Fig. 2 - Instantaneous Forward Characteristics 15.0 13.5 Instantaneous Forward Current (A) T<sub>J</sub>=125°C 12.0 10.5 9.0 7.5 6.0 4.5 3.0  $T_J = 25^{\circ}C^{\circ}$ 1.5 0.0 0.2 0.4 2.2 0.6 8.0 1.0 1.2 1.4 1.8 2.0 Instantaneous Forward Voltage (V)



# **Ordering Information**

Device	Packing		
Part Number-BP	Bulk:1Kpcs/Box		

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

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