

### **Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- High Efficiency
- High Reliability
- Epoxy Meets UL 94 V-0 Flammability Rating

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 2.5°C/W Junction to Case

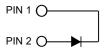
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR3060F	MUR3060F	600V	420V	600V

# Electrical Characteristics @ 25°C Unless Otherwise Specified

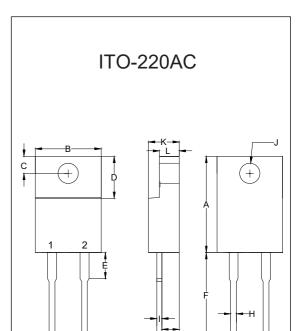
Average Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I <sub>F(AV)</sub>	30A	T <sub>C</sub> =110ºC		
Peak Forward Surge Current	I <sub>FSM</sub>	200A	8.3ms,Half Sine Wave		
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.3V(Typ) 1.7V(Max) 1.2V(Max)	I <sub>F</sub> =30A;T <sub>J</sub> =25°C I <sub>F</sub> =30A;T <sub>J</sub> =25°C I <sub>F</sub> =30A;T <sub>J</sub> =125°C		
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.05mA 25mA	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; Irr=0.25A		

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

### Internal Structure



# 30 Amp Super Fast 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	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**

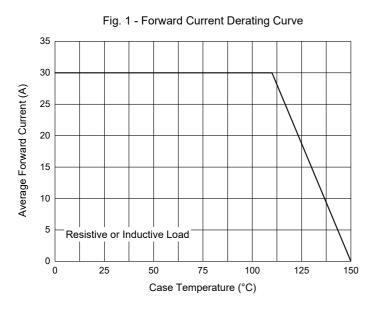


Fig. 3 - Typical Reverse Leakage Characteristics

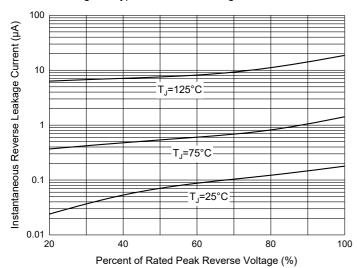


Fig. 2 - Typical Instantaneous Forward Characteristics 50 20 Instantaneous Forward Current (A) 10 5 2 0.5 0.2  $T_J=25$ °C 8.0 1.0 1.2 1.8 2.0

Instantaneous Forward Voltage (V)



# **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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