

### **Features**

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Efficiency
- High Reliability
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating

# 30 Amp Super Fast Rectifier 600 Volts

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°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
MURS3060	MURS3060	600V	420V	600V

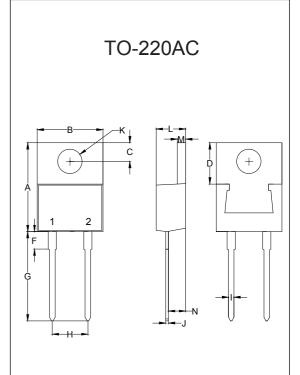
# Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I <sub>F(AV)</sub>	30A	T <sub>C</sub> =110°C	
Peak Forward Surge Current	I <sub>FSM</sub>	200A	8.3ms,Half Sine Wave	
Maximum Instantaneous Forward Voltage	$V_{F}$	1.3V(Typ) 1.7V(Max) 1.2V	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	$T_RR$	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





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		

1.8

2.0



# **Curve Characteristics**

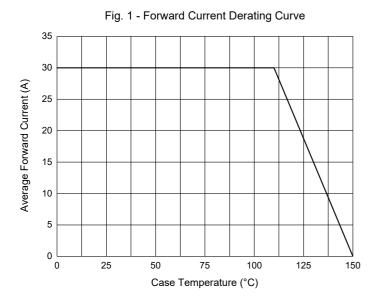


Fig. 3 - Typical Reverse Leakage Characteristics

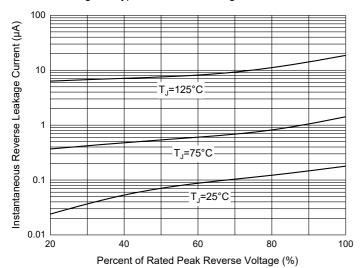


Fig. 2 - Typical Instantaneous Forward Characteristics 50 20 Instantaneous Forward Current (A) 10 5 2 0.5 0.2  $T_J=25$ °C 0.1 <u></u> 0.4

8.0

1.0

1.2

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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