

## Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Frequency Operation
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Planar Structure Die and Soft Recovery Characteristics

# 30 Amp Ultra Fast Recovery Rectifier 600 Volts

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Maximum Thermal Resistance: 3°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS3060F	MURS3060F	600V	420V	600V

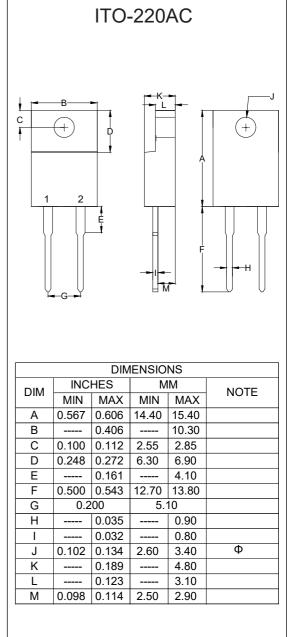
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current	I <sub>F(AV)</sub>	30A	T <sub>C</sub> =25⁰C
Peak Forward Surge Current	I <sub>FSM</sub>	200A	8.3ms,Half Sine
Instantaneous Forward Voltage	V <sub>F</sub>	2.0V(Max.) 1.6V(Typ.)	I <sub>F</sub> =30A; T <sub>J</sub> =25⁰C I <sub>F</sub> =30A; T <sub>J</sub> =25⁰C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 200μΑ	T <sub>J</sub> =25⁰C; T <sub>J</sub> =125⁰C
Typical Junction Capacitance	CJ	200pF	Measured at 1.0MHz, V <sub>R</sub> =4V
Reverse Recovery Time	t <sub>rr</sub>	35ns(Typ.) 45ns(Max.)	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 O-----





# **Curve Characteristics**

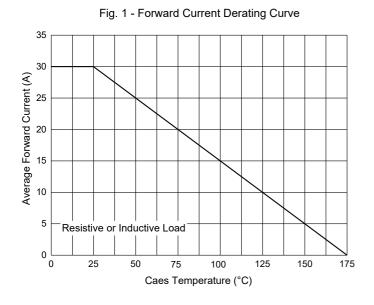
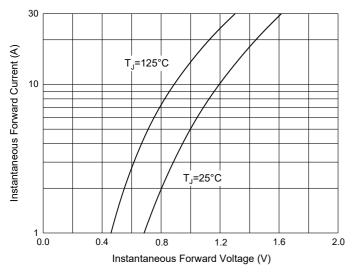


Fig. 3 - Typical Instantaneous Forward Characteristics



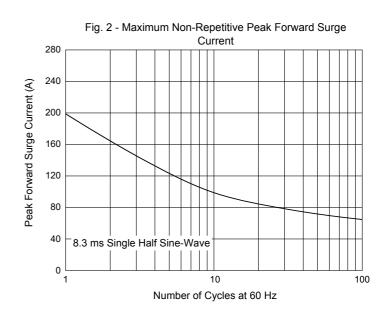
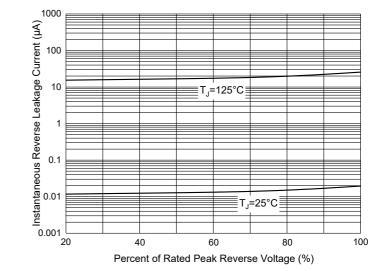


Fig. 4 - Typical Reverse Leakage Characteristics





# **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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