

#### **Features**

- Super Fast Switching For High Efficiency
- High Junction Temperature Capability
- Low Reverse Leakage
- High Forward Surge Current Caability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Planar Structure Die and Soft Recovery Characteristics

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 0.5°C/W Junction to Case

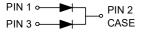
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR2040PT	MUR2040PT	400V	280V	400V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

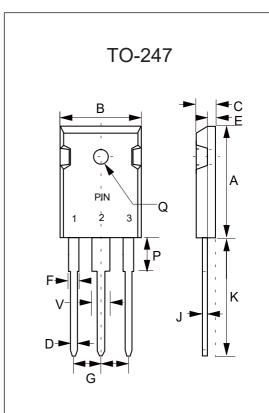
Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle  Average Rectified  I <sub>F(AV)</sub> 20A T <sub>C</sub> =1	30°C
Peak Forward Surge Current I <sub>FSM</sub> 160A 8.3m	ns,Half Sine
Forward Voltage 1.40V(Max) I <sub>FM</sub> =	10A,T <sub>J</sub> =25°C 10A,T <sub>J</sub> =25°C 10A,T <sub>J</sub> =125°C
	5°C 25°C
t 35ne	5A; I <sub>R</sub> =1.0A, 0.25A

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

### Internal Structure



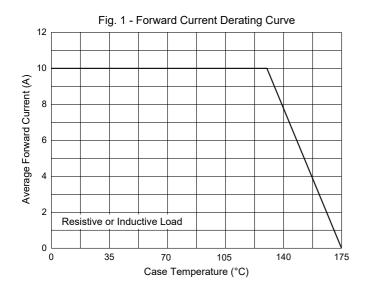
# 2\$ Amp Super Fast Recovery Rectifier 4\$\$ Volts

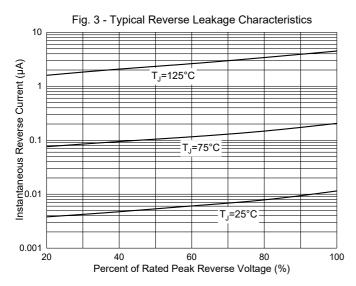


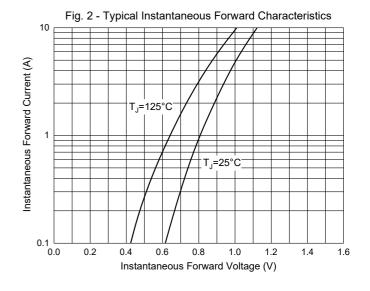
DIMENSIONS								
DIM	INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE			
Α	0.787	0.866	20.00	22.00				
В	0.598	0.638	15.20	16.20				
С	0.185	0.208	4.70	5.30				
D	0.035	0.059	0.90	1.50				
E	0.059	0.094	1.50	2.40				
F	0.067	0.091	1.70	2.30				
J	0.019	0.031	0.48	0.80				
K	0.748	0.833	19.00	21.15				
Р	0.122	0.189	3.10	4.80				
Q	0.118	0.150	3.00	3.80	Ф			
V	0.106	0.134	2.70	3.40				
G	0.197	0.224	5.00	5.70				



## **Curve Characteristics**









## **Ordering Information**

Device	Packing	
Part Number-BP	Bulk:30pcs/Tube,360pcs/Box,1.8Kpcs/Carton	

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

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