

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
- 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

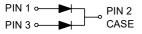
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR6040PT	MUR6040PT	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

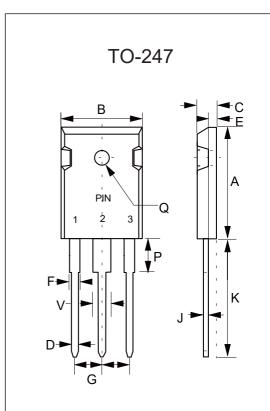
Average Rectified	
Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle 60A	T _C =120°C
Peak Forward Surge Current I _{FSM} 480A	8.3ms,Half Sine
Instantaneous Forward Voltage V _F 1.20V(Typ) 1.40V(Max) 1.20V(Max)	I _{FM} =30A,T _J =25°C I _{FM} =30A,T _J =25°C I _{FM} =30A,T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage I _R 10μA 0.10mA	T _J =25°C T _J =125°C
Maximum Reverse Recovery Time t _{rr} 50ns	I _F =0.5A; I _R =1.0A, I _{RR} =0.25A

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

Internal Structure



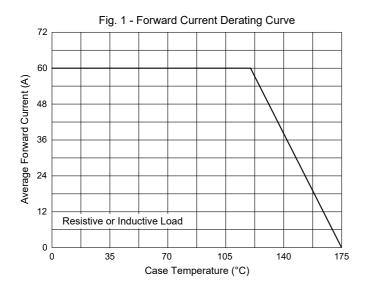
6\$ Amp Super Fast Recovery Rectifier 4\$\$ Volts

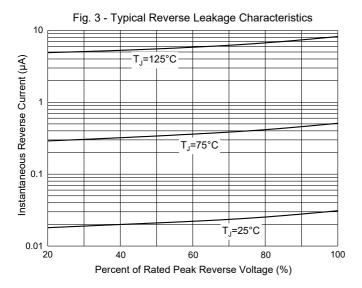


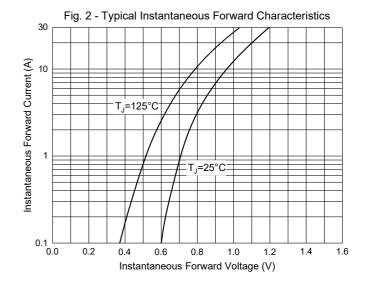
DIMENSIONS								
DIM	INCHES		MM		NOTE			
Dilvi	MIN	MAX	MIN	MAX	NOIE			
Α	0.787	0.866	20.00	22.00				
В	0.598	0.638	15.20	16.20				
С	0.185	0.208	4.70	5.30				
D	0.035	0.059	0.90	1.50				
E	0.059	0.094	1.50	2.40				
F	0.067	0.091	1.70	2.30				
J	0.019	0.031	0.48	0.80				
K	0.748	0.833	19.00	21.15				
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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