

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: 1°C/W Junction to Case
- Typical Thermal Resistance: 50°C/W Junction to Ambient

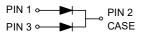
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR6060PTH	MUR6060PTH	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

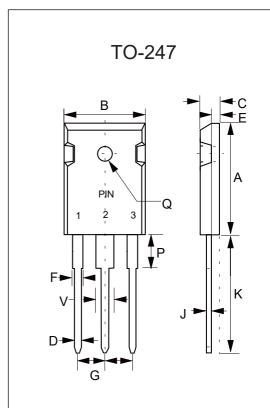
Average Rectified Forward Current	I _{F(AV)}	60A	T _C =80°C	
Peak Forward Surge Current	I _{FSM}	300A	8.3ms,Half Sine	
Instantaneous Forward Voltage	V _F	1.45V(Typ.) 1.60V(Max.) 1.45V(Max.)	I _{FM} =30A;T _J =25°C I _{FM} =30A;T _J =25°C I _{FM} =30A;T _J =150°C	
Reverse Current At Rated DC Blocking Voltage	I _R	5µA(Max.) 200uA(Max.)	T _J =25°C T _J =150°C	
Avalanche Energy	E _{AS}	385mJ	T _P =40uS,I T _J =25°C	_=15mH,
Reverse Recovery	t _{rr}	38ns(Typ.) 50ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Time		112ns(Typ.) 175ns(Typ.)	T _J =25°C T _J =125°C	1 -204
Peak recovery current	I _{RRM}	5.5A(Typ.) 13A(Typ.)	T _J =25°C T _J =125°C	I_F =30A di_F/dt =200A/ μ s V_R =200 V
Reverse recovery charge	Q _{rr}	300nC(Typ.) 1150nC(Typ.)	T _J =25°C T _J =125°C	VR 200 V

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

Internal Structure



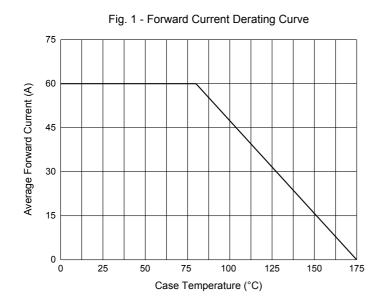
* \$ Amp Super Fast Recovery Rectifier * \$\$ Volts

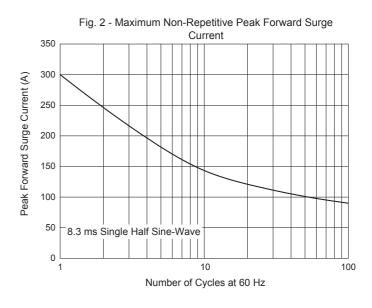


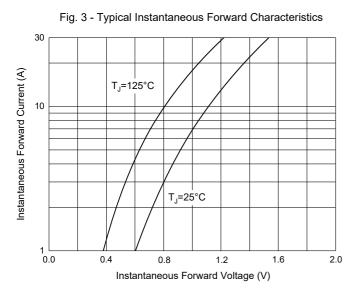
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.787	0.866	20.00	22.00			
В	0.598	0.638	15.20	16.20			
С	0.185	0.208	4.70	5.30			
D	0.035	0.059	0.90	1.50			
Е	0.059	0.094	1.50	2.40			
F	0.067	0.091	1.70	2.30			
J	0.019	0.031	0.48	0.80			
K	0.748	0.833	19.00	21.15			
Р	0.122	0.189	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			

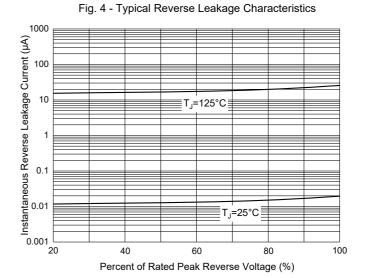


Curve Characteristics









Rev.3-1-01012022 2/3 MCCSEMI.COM



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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