

### **Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Fast Reverse Recovery Time
- High Frequency Operation
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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

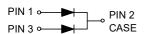
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR3060PTH	MUR3060PTH	600V	420V	600V

# Electrical Characteristics @ 25°C Unless Otherwise Specified

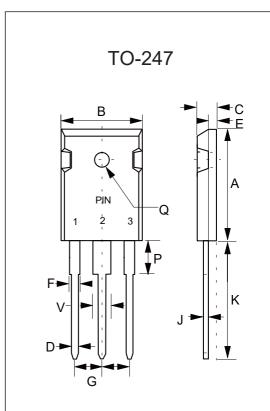
Average Rectified Forward Current	I <sub>F(AV)</sub>	30A	T <sub>C</sub> =125°C	;
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms,Hal	f Sine
Instantaneous Forward Voltage	V <sub>F</sub>	1.45V(Typ) 1.60V(Max) 1.40V(Max)	I <sub>F</sub> =15A; T <sub>J</sub> =25°C I <sub>F</sub> =15A; T <sub>J</sub> =25°C I <sub>F</sub> =15A; T <sub>J</sub> =150°C	
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5uA 200uA	T <sub>J</sub> =25°C; T <sub>J</sub> =150°C	
Avalanche Energy	E <sub>AS</sub>	140mJ	$T_P$ =40uS,L=15mH, $T_J$ =25°C	
Reverse Recovery	t <sub>rr</sub>	26ns(Typ.) 35ns(Max.)	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>RR</sub> =0.25A	
Time		115ns(Typ.) 200ns(Typ.)	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	1 –450
Peak recovery current	I <sub>RRM</sub>	5.0A(Typ.) 10.5A(Typ.)	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	I <sub>F</sub> =15Α   di <sub>F</sub> /dt=200Α/μs   V <sub>R</sub> =200 V
Reverse recovery charge	Q <sub>rr</sub>	285nC(Typ.) 1000nC(Typ.)	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	VR 200 V

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

### Internal Structure



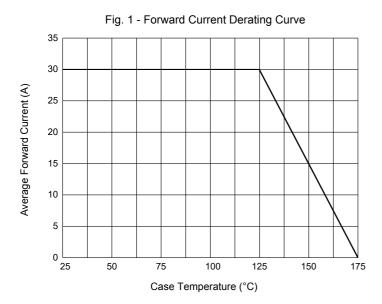
# 30 Amp Super Fast Recovery Rectifier 600 Volts

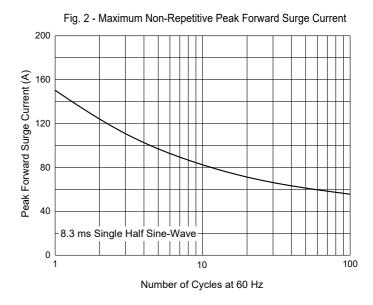


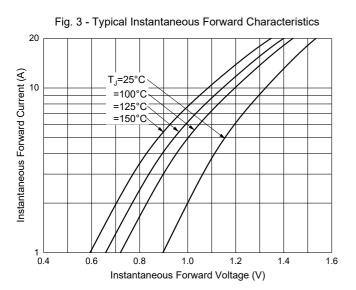
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.787	0.866	20.00	22.00		
В	0.598	0.638	15.20	16.20		
С	0.185	0.208	4.70	5.30		
D	0.035	0.059	0.90	1.50		
E	0.059	0.094	1.50	2.40		
F	0.067	0.091	1.70	2.30		
J	0.019	0.031	0.48	0.80		
K	0.748	0.833	19.00	21.15		
Р	0.122	0.189	3.10	4.80		
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		

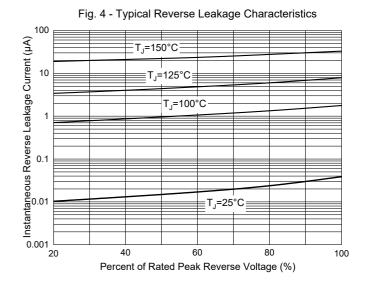


# **Curve Characteristics**











# **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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