

Features

- Super Fast Switching For High Efficiency
- 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 +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 1°C/W Junction to Case

MCC Part Number	0	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
MUR6040PTS	MUR6040PTS	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

	_		
Average Rectified Forward Current	I _{F(AV)}	60A	T _C =75⁰C
Peak Forward Surge Current	I _{FSM}	300A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	1.20V(Typ) 1.40V(Max) 1.20V(Max)	I _F =30A,T _J =25⁰C I _F =30A,T _J =25⁰C I _F =30A,T _J =150⁰C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5µA 200uA	Tյ=25⁰C Tյ=150⁰C
Typical Junction Capacitance	CJ	295pF	Measured at 1.0MHz, V _R =4V

Dynamic Recovery Characteristics @ 25°C Unless Otherwise Specified

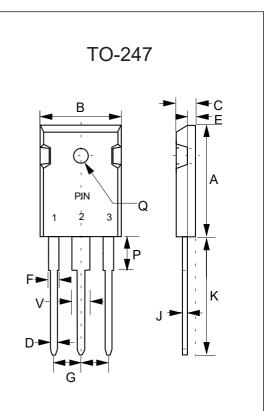
Reverse Recovery	t _{rr}	36ns(Typ.) 50ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A		
Time		45ns(Typ.) 85ns(Typ.)	T _J =25⁰C T _J =125⁰C	L = 20 A	
Peak recovery current	I _{RRM}	4.0A(Typ.) 9.5A(Typ.)	T _J =25⁰C T _J =125⁰C	I _F = 30 A di _F /dt = 200 A/μs V _R = 200 V	
Reverse recovery charge	Q _{rr}	95nC(Typ.) 410nC(Typ.)	T _J =25⁰C T _J =125⁰C		

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

Internal Structure

PIN 1 •—		PIN 2
PIN 3 •—	╺╺┝┥	CASE

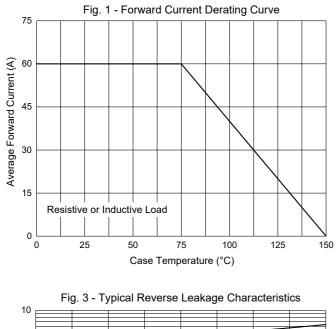
60 Amp Super Fast Recovery Rectifier 400 Volts

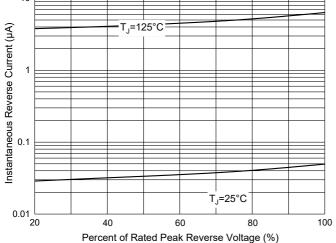


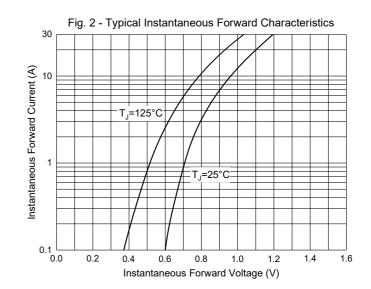
DIMENSIONS					
DIM	INC	INCHES		М	NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.787	0.866	20.00	22.00	
В	0.598	0.638	15.20	16.20	
С	0.185	0.208	4.70	5.30	
D	0.035	0.059	0.90	1.50	
Е	0.059	0.094	1.50	2.40	
F	0.067	0.091	1.70	2.30	
J	0.019	0.031	0.48	0.80	
Κ	0.748	0.833	19.00	21.15	
Р	0.122	0.189	3.10	4.80	
Q	0.118	0.150	3.00	3.80	Φ
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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