

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Super Fast Recovery Times With EPI Die For High Efficiency
- Halogen Free. "Green" Device (Note 2)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 25°C/W Junction to Lead
- Typical Thermal Resistance: 35°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage	Working Peak Reverse Voltage
MURS3G	MURS3G	400V	280V	400V	300V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3.0A	T _L =110°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.0V 0.92V(typ)	I _{FM} =3.0A; T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 200μA	T _J =25°C; T _J =100°C
Maximum Reverse Recovery Time	T _{RR}	35ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Pulse Energy in Avalanche Mode, Non Repetitive (Inductive Load Switch Off)	E _R	25mJ	I _{(BR)R} =1A, T _J =25°C
Typical Junction Capacitance	CJ	40pF	Measured at 1.0MHz, V _R =4.0V

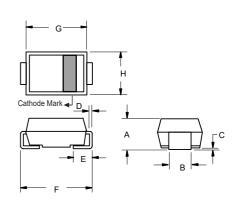
^{*}Pulse Test: Pulse Width 300 μ sec, Duty Cycle 2%

Note:

- 1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.
- 2. Halogen free "Green" products are defined as those which contain <900ppm bromine,
- <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

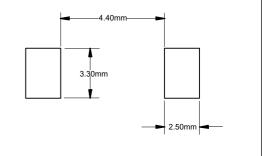
3 Amp Super Fast Recovery Rectifier 400 Volts

SMC (DO-214AB)



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOIL		
Α	0.079	0.103	2.00	2.62			
В	0.108	0.128	2.75	3.25			
С	0.002	0.008	0.051	0.203			
D	0.006	0.012	0.152	0.305			
Е	0.030	0.060	0.76	1.52			
F	0.305	0.320	7.75	8.13			
G	0.260	0.280	6.60	7.11			
Н	0.220	0.245	5.59	6.22			

Suggested Solder Pad Layout





Curve Characteristics

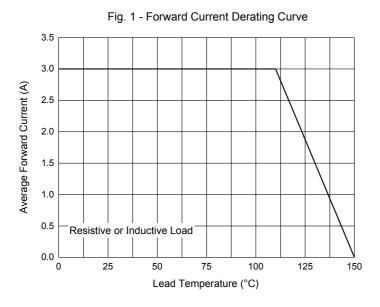


Fig. 3 - Typical Instantaneous Forward Characteristics

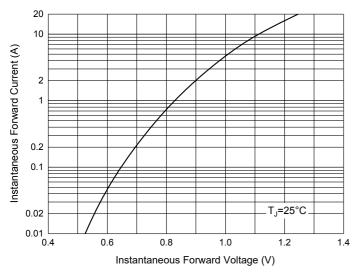


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

120

100

80

40

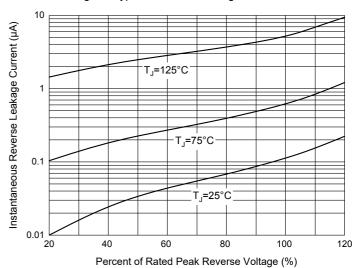
40

8.3 ms Single Half Sine-Wave

0

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		

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