

Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant (Note2) ("P"Suffix Designates Compliant. See Ordering Information)
- Ultra Fast Switching For High Efficiency
- For Surface Mounted Applications
- · High Current Capability
- Low Reverse Leakage Current
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Fast Rectifiers 600 Volts

3.0 Amp Super

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +175°C
- Maximum Thermal Resistance: 16 °C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS3JAFL	UR3J	600V	420V	600V

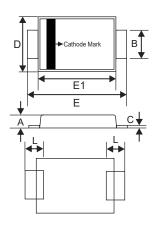
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3.0A	T _L =75°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.7V	I _{FM} =3.0A; T _J =25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0µA	T _J =25°C
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A
Typical Junction Capacitance	CJ	45pF	Measured at 1.0MHz, V _R =4.0V

Note:

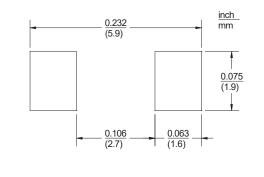
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a.

DO-221AC(SMA-FL)



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.035	0.049	0.90	1.25			
В	0.049	0.065	1.25	1.65			
С	0.004	0.016	0.10	0.40			
D	0.089	0.116	2.25	2.95			
Е	0.173	0.220	4.40	5.60			
E1	0.126	0.181	3.20	4.60			
L	0.020	0.059	0.50	1.50			

SUGGESTED SOLDER PAD LAYOUT





Curve Characteristics

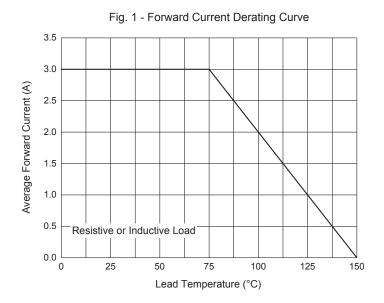
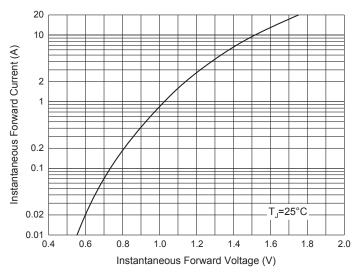


Fig. 3 - Typical Instantaneous Forward Characteristics



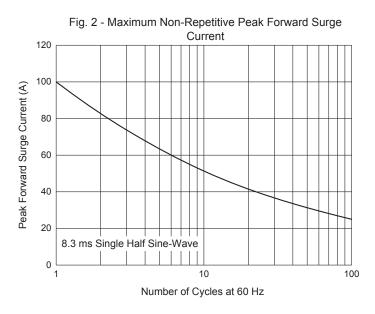
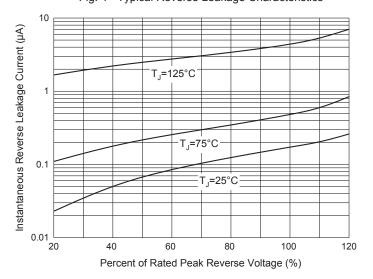


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 10Kpcs/Reel	

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