

Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 20°C/W Junction to Lead
- Thermal Resistance: 70°C/W Junction to Ambient(Note 3)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS1JPL	UR1J	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

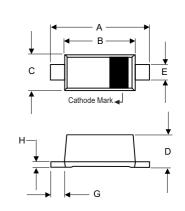
Average Forward Current	I _{F(AV)}	1.0A	T _L =110°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.25V(Max.) 1.10V(Typ.)	I _{FM} =1.0A; I _{FM} =1.0A;
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 50μA	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time	t _{rr}	50ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	Сл	15pF	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 Exemption Applied, See EU Directive Annex Notes 7a.
- 3. Mounted on P.C.B with 3mm*3mm Copper Pad Areas.

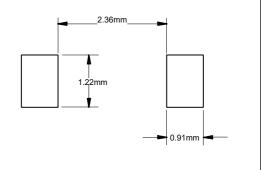
1 Amp Super Fast Recovery Rectifier 600 Volts

SOD-123FL



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.130	0.152	3.30	3.85			
В	0.100	0.122	2.55	3.10			
С	0.055	0.075	1.40	1.90			
D	0.035	0.053	0.90	1.35			
E	0.020	0.041	0.50	1.05			
G	0.010		0.25				
Н		0.010		0.25			

Suggested Solder Pad Layout





Curve Characteristics

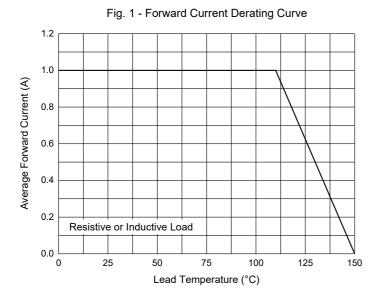


Fig. 3 - Typical Instantaneous Forward Characteristics

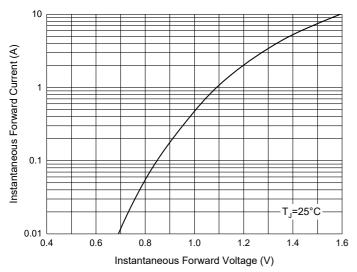


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

35

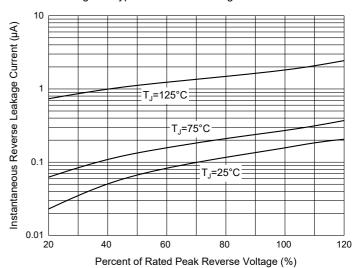
20

20

15

8.3 ms Single Half Sine-Wave
0
1
10
Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
MURS1JPL-TP	Tape&Reel: 2.5Kpcs/Reel	

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