

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
- Typical Thermal Resistance: 20°C/W Junction to Lead^(Note3)
- Typical Thermal Resistance: 60°C/W Junction to Ambient (Note3)

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS1JAFL	UR1JL	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	1.0A	T _L =120°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.4V(Max) 1.2V(Typ)	I _{FM} =1.0A
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5.0µA	TJ=25⁰C
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz V _R =4.0V

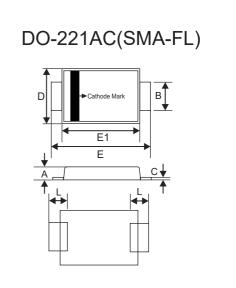
Note :

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.

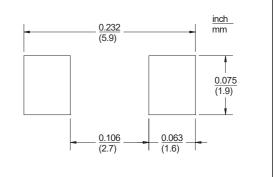
3. Mounted on P.C.B. With 0.2" x 0.2" (5.0 mm x 5.0 mm) Copper Pad Areas.

1 Amp Super Fast Recovery Rectifier 600 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	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		
E	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

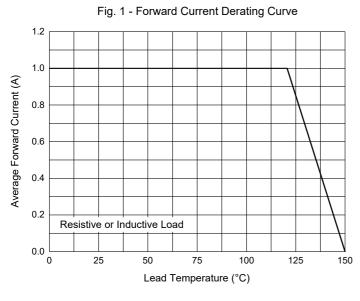
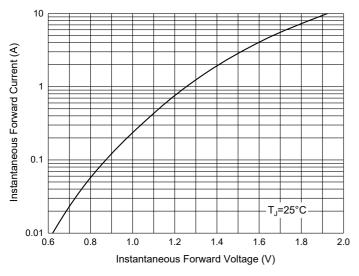
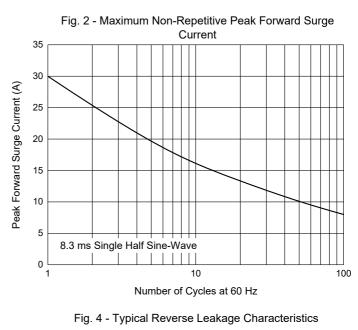
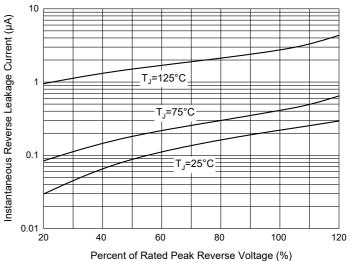


Fig. 3 - Typical Instantaneous Forward Characteristics











Ordering Information

Device	Packing	
MURS1JAFL-TP	Tape&Reel: 10Kpcs/Reel	

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