

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
- Super Fast Switching Speed 15ns Typical

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 20°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS1A	UR1A	50V	35V	50V
MURS1B	UR1B	100V	70V	100V
MURS1D	UR1D	200V	140V	200V

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	0.98V(Max) 0.92V(Typ)	I _{FM} =1.0A;
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μΑ 100μΑ	TJ=25°C; TJ=100°C
Reverse Recovery Time	t _{rr}	20ns(Max) 15ns(Typ)	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz V _R =4.0V

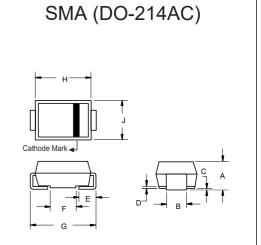
Note :

1. Halogen free "Green" products are defined as those which contain <900ppm bromine,

<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

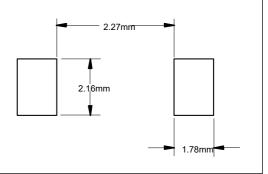
2. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.





	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
А	0.075	0.096	1.90	2.44			
В	0.050	0.064	1.27	1.63			
С	0.002	0.008	0.051	0.203			
D		0.020		0.51			
E	0.030	0.060	0.76	1.52			
F	0.065	0.091	1.65	2.32			
G	0.189	0.220	4.80	5.59			
Н	0.157	0.187	4.00	4.75			
J	0.090	0.115	2.25	2.92			

SUGGESTED SOLDER PAD LAYOUT





Curve Characteristics

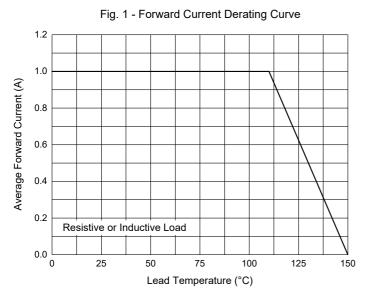
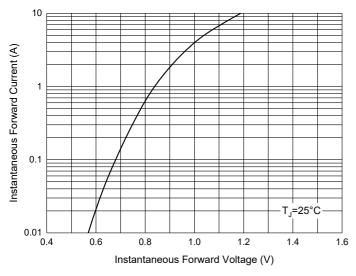
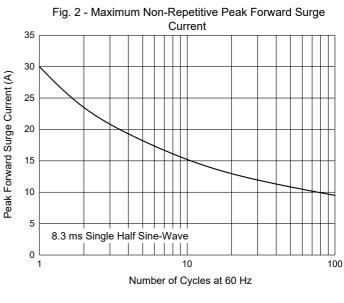
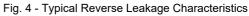
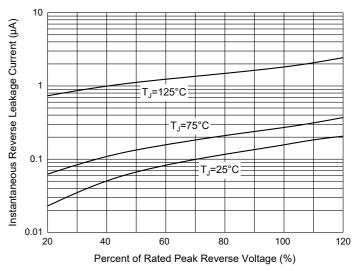


Fig. 3 - Typical Instantaneous Forward Characteristics











Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 5Kpcs/Reel	

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