

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
- · Glass Passivated Chip
- 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
- Maximum Thermal Resistance: 35°C/W Junction to Lead
- Maximum Thermal Resistance: 85°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
UG1A	UG1A	50V	35V	50V
UG1B	UG1B	100V	70V	100V
UG1C	UG1C	150V	105V	150V
UG1D	UG1D	200V	140V	200V
UG1F	UG1F	300V	210V	300V
UG1G	UG1G	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

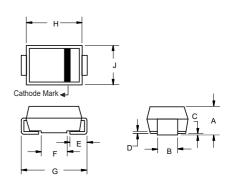
Average Forward Current	I _{F(AV)}	1.0A	T _L =120°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage			
UG1A-UG1D	V _F	0.92V	I _{FM} =1.0A;
UG1F-UG1G		1.25V	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5.0μA 100μA	T _A =25°C; T _A =100°C
Maximum Reverse Recovery Time	t _{rr}	25ns	I _F =0.5A; I _R =1.0A; Irr=0.25A
Typical Junction Capacitance			
UG1A-UG1D UG1F-UG1G	CJ	17pF 15pF	Measured at 1.0MHz, VR=4.0V

Note:

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

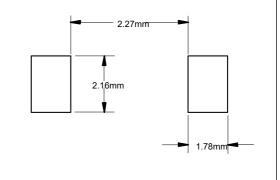
1 Amp Super Fast Recovery Rectifier 50 to 400 Volts

SMA (DO-214AC)



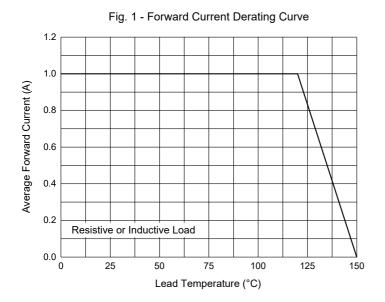
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.075	0.096	1.90	2.44	
В	0.050	0.064	1.27	1.63	
С	0.002	0.008	0.051	0.203	
D		0.020		0.51	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.189	0.220	4.80	5.59	
Н	0.157	0.187	4.00	4.75	
J	0.090	0.115	2.25	2.92	-

SUGGESTED SOLDER PAD LAYOUT





Curve Characteristics



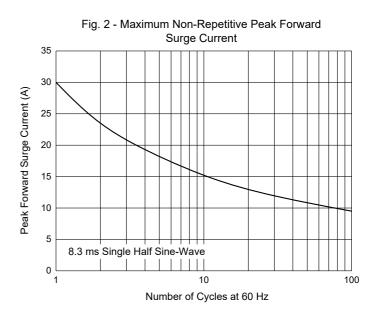
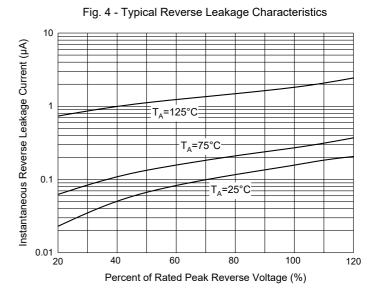


Fig. 3 - Typical Instantaneous Forward Characteristics

10
UG1A-UG1D
UG1F-UG1G

0.1
0.01
0.4
0.6
0.8
1.0
1.2
1.4
1.6
Instantaneous Forward Voltage (V)





Ordering Information

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

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UG1A-TP UG1B-TP UG1C-TP UG1D-TP UG1F-TP UG1G-TP