

Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- High Forward Surge Capability
- Lead Free Finish/RoHS Compliant (Note2) ("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
- Typical Thermal Resistance: 70°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SM5391PL	G15A	50V	35V	50V
SM5392PL	G15B	100V	70V	100V
SM5393PL	G15D	200V	140V	200V
SM5395PL	G15G	400V	280V	400V
SM5397PL	G15J	600V	420V	600V
SM5398PL	G15K	800V	560V	800V
SM5399PL	G15M	1000V	700V	1000V

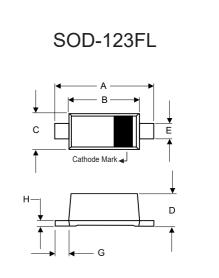
Electrical Characteristics @ 25°C Unless Otherwise Specified

I _{F(AV)}	1.5A	T _A =75°C
I _{FSM}	50A	8.3ms,Half Sine
V _F	1.1V	I _{FM} =1.5A; T _J =25⁰C
I _R	5.0μA 100μA	Tյ=25⁰C; Tj=125⁰C
t _{rr}	1.5μS(Min) 2.0μS(Typ) 4.0μS(Max)	I _F =0.5A; I _R =1.0A; I _{rr} =0.25A
CJ	11pF	Measured at 1.0MHz VR=4.0V
	I _{FSM} V _F I _R	$ I_{FSM} = 50A V_F = 50A V_F = 1.1V I_R = 5.0\mu A 100\mu A t_{rr} = 1.5\mu S(Min) 2.0\mu S(Typ) 4.0\mu S(Max) $

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

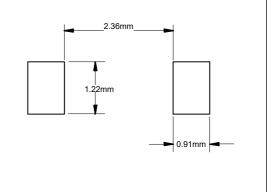
2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

1.5 Amp Rectifier 50 to 1000 Volts



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
А	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			
Е	0.020	0.041	0.50	1.05			
G	0.010		0.25				
Н		0.010		0.25			

SUGGESTED SOLDER PAD LAYOUT





Curve Characteristics

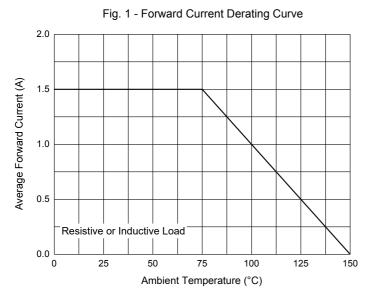
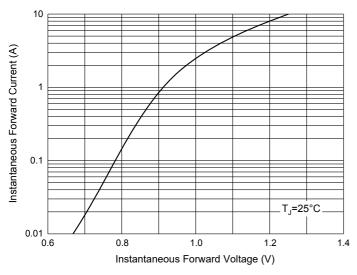
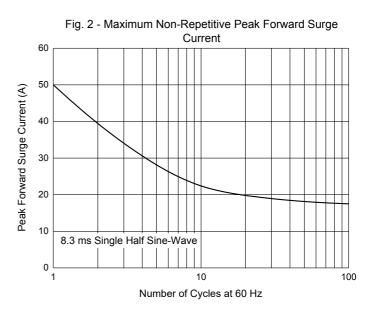
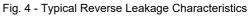
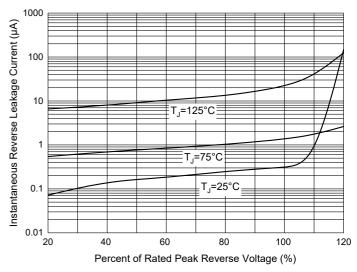


Fig. 3 - Typical Instantaneous Forward Characteristics











Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel	

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