Micro Commercial Components
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RoHS COMPLIANT

SM5391PL THRU SM5399PL

1.5 Amp Rectifier 50 - 1000 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Glass passivated chip junction
- High forward surge capability
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance; 20°C/W Junction To Lead

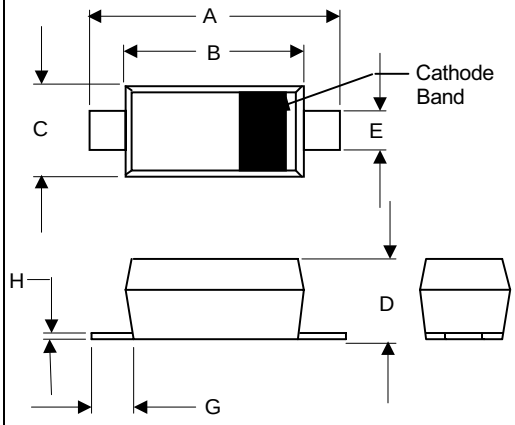
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SM5391PL	G15A	50V	35V	50V
SM5392PL	G15B	100V	70V	100V
SM5393PL	G15D	200V	140V	200V
SM5395PL	G15G	400V	280V	400V
SM5397PL	G15J	600V	420V	600V
SM5398PL	G15K	800V	560V	800V
SM5399PL	G15M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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.5A	T_A = 75°C
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.1V	I_{FM} = 1.5A; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0μA 100μA	T_A = 25°C T_A = 125°C

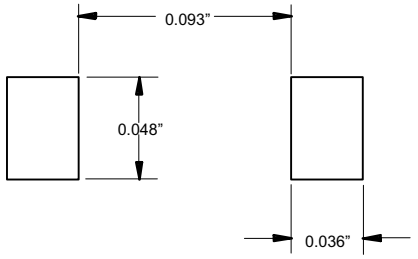
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

SOD-123FL



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.140	.152	3.55	3.85	
B	.100	.122	2.55	3.10	
C	.055	.075	1.40	1.90	
D	.035	.047	0.90	1.20	
E	.020	.041	0.50	1.05	
G	.010	-----	0.25	-----	
H	-----	.010	----	.25	

SUGGESTED SOLDER PAD LAYOUT



■ Characteristics(Typical)

FIG1:Io-Ta Curve

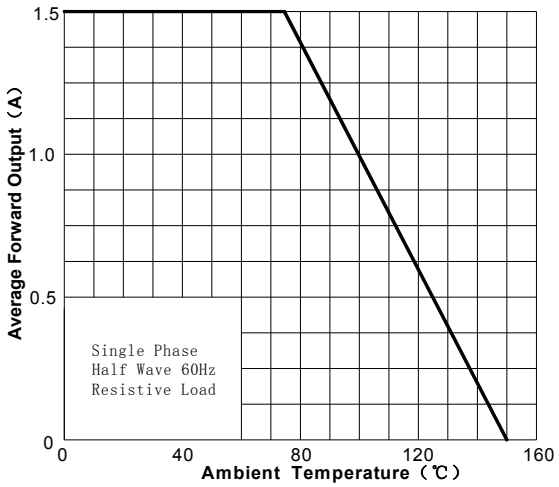


FIG2:Surge Forward Current Capability

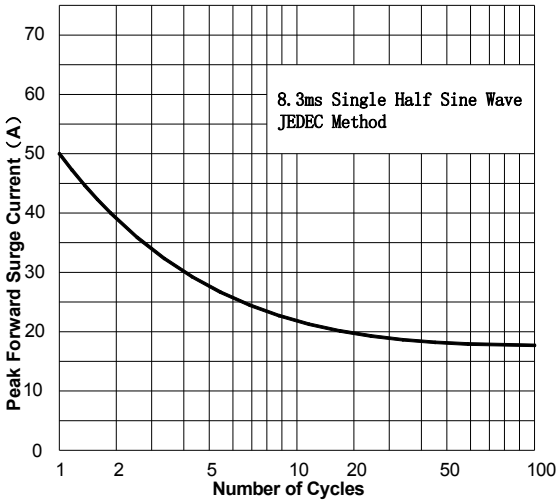


FIG3: Forward Voltage

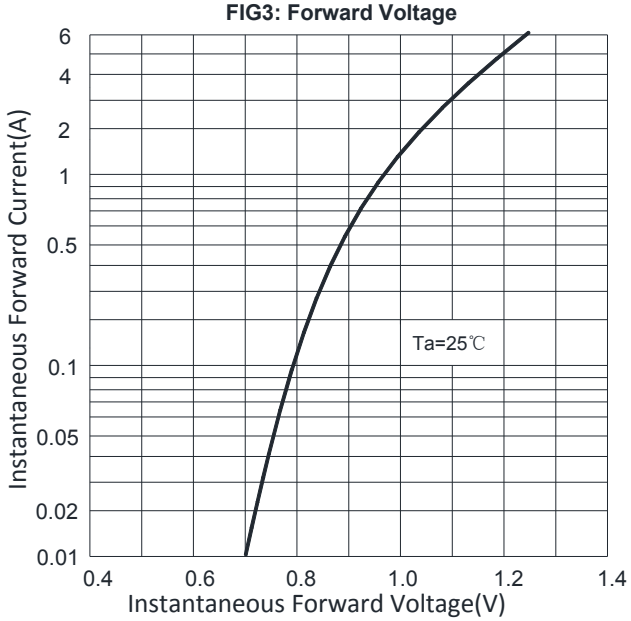
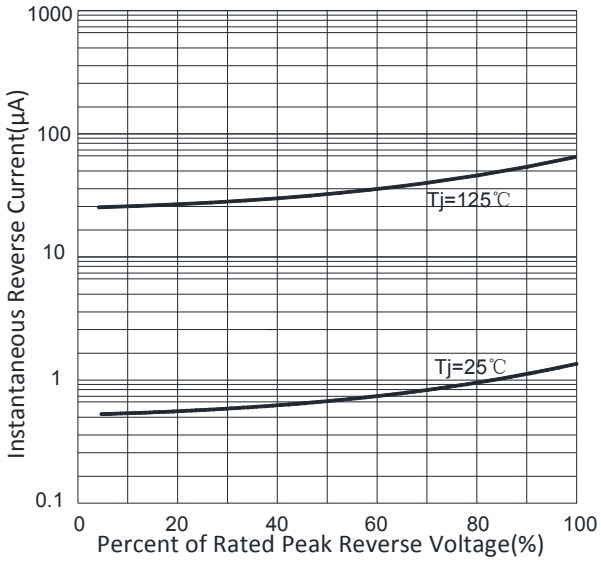


FIG4:Typical Reverse Characteristics



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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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