Changshu Talent Semiconductors Co.,Ltd
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1N5391GP THRU 1N5399GP

1.5 Amp Glass Passivated Rectifier 50 - 1000 Volts

Features

- Lead Free Finish/RoHS Compliant (Note1)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Current Capability

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance; 45°C/W Junction To Ambient

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5391GP	1N5391GP	50V	35V	50V
1N5392GP	1N5392GP	100V	70V	100V
1N5393GP	1N5393GP	200V	140V	200V
1N5394GP	1N5394GP	300V	210V	300V
1N5395GP	1N5395GP	400V	280V	400V
1N5396GP	1N5396GP	500V	350V	500V
1N5397GP	1N5397GP	600V	420V	600V
1N5398GP	1N5398GP	800V	560V	800V
1N5399GP	1N5399GP	1000V	700V	1000V

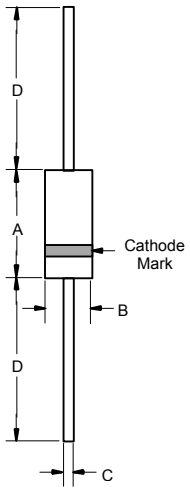
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	1.5A	T_A = 70°C
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.4V	I_{FM} = 1.5A; T_J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0μA 300μA	T_A = 25°C T_A = 100°C
Typical Junction Capacitance	C_J	15pF	Measured at 1.0MHz, V_R=4.0V

*Pulse test: Pulse width 300 μsec, Duty cycle 1%

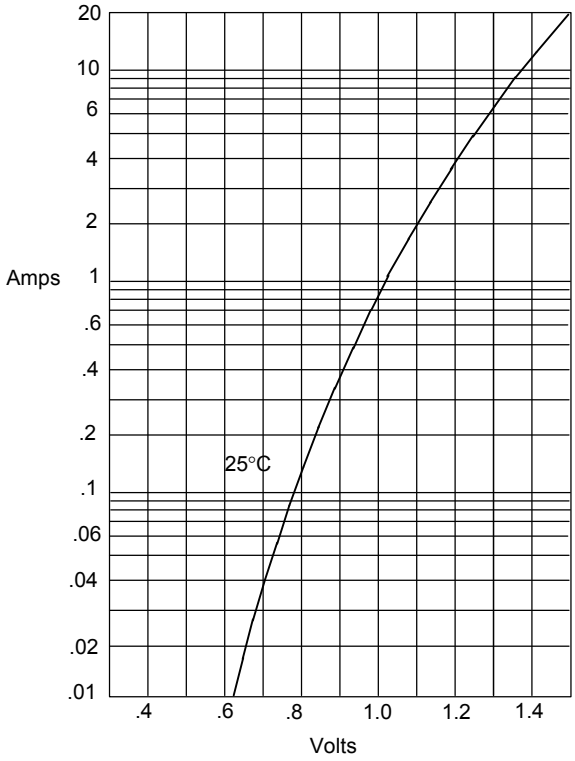
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

DO-15



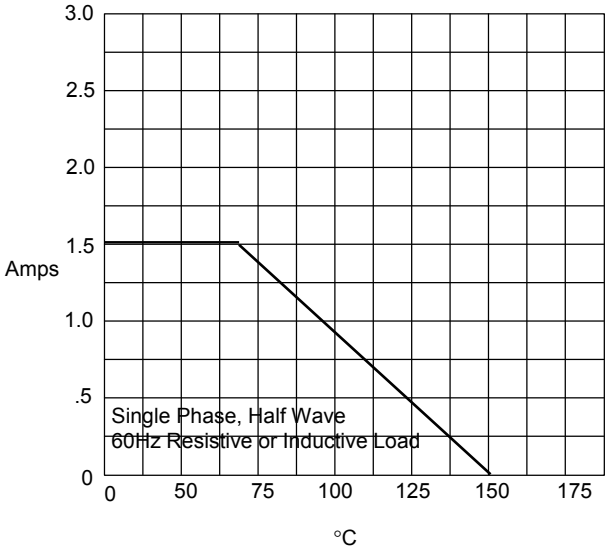
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.230	.300	5.80	7.60	
B	.104	.140	2.60	3.60	
C	.026	.034	.70	.90	
D	1.000	---	25.40	---	

Figure 1
Typical Forward Characteristics



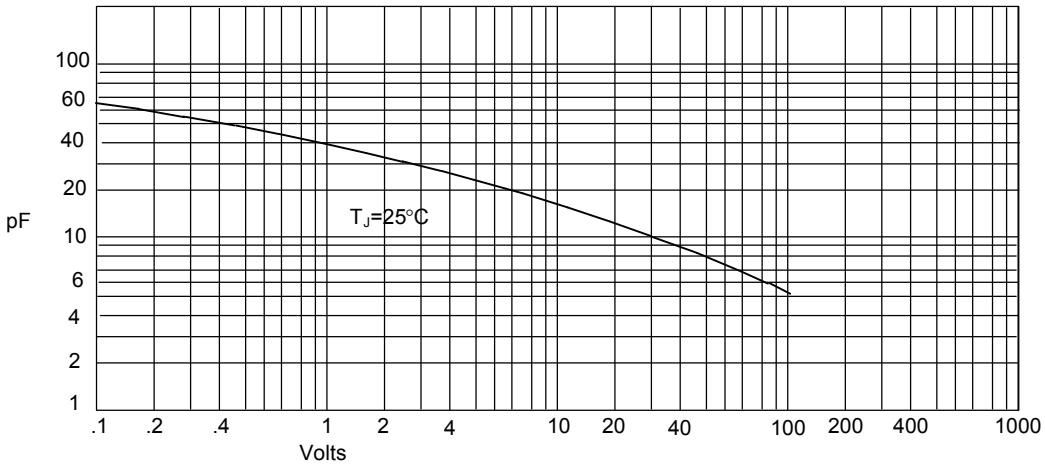
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



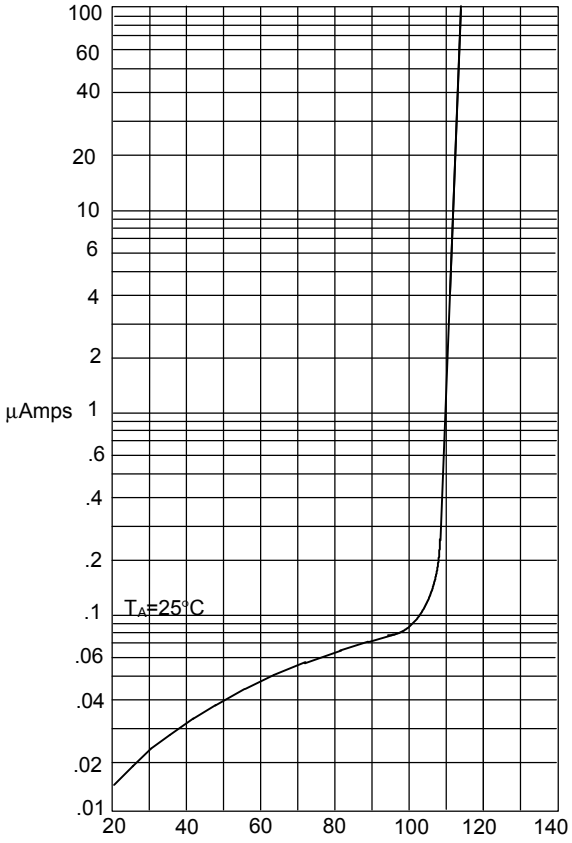
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

Figure 3
Junction Capacitance



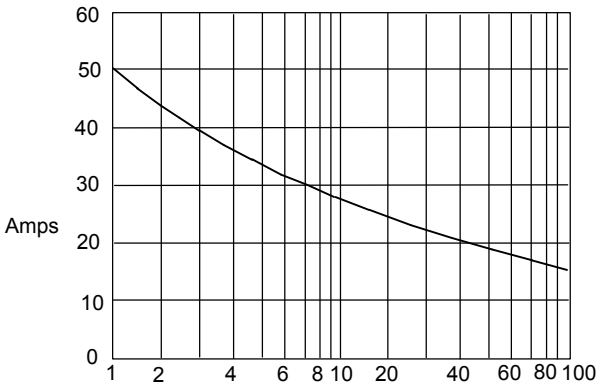
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles