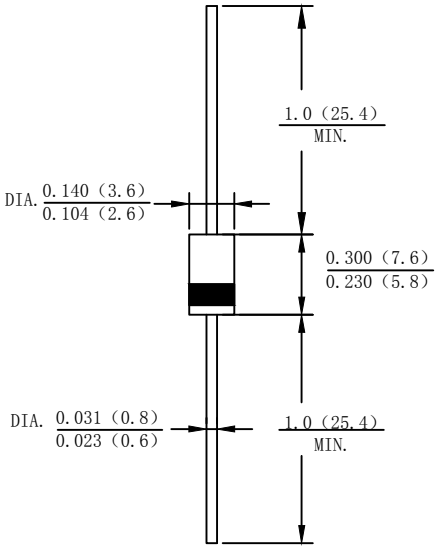
1N5391G THRU 1N5399G

1.5 AMPS. Glass Passivated Rectifiers

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Case: DO-15



Dimensions in inches and (millimeters)

Mechanical Data

- Case: Molded plastic DO-15
- Terminals: Axial leads solderable to MIL-STD-202,Method 208
- Polarity: Color band dentes cathode end
- Mounting Position: Any

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	1N 5391G	1N 5392G	1N 5393G	1N 5394G	1N 5395G	1N 5396G	1N 5397G	1N 5398G	1N 5399G	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	V
Average Rectified Output Current (Note 1) @T_L=100℃	$I_{F(AV)}$	1.5									A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50									A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	10.375									A^2s
Forward Voltage @IF=1.5A	V_{FM}	1.1									V
Peak Reverse Current @T_A=25℃	I_R	5.0									uA
At Rated DC Blocking Voltage @T_A=125℃		100									
Typical Junction Capacitance (Note 2)	C_j	10									pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	65									℃/W
Operating Temperature Range	T_j	-55 to +150									℃
Storage Temperature Range	T_{STG}	-55 to +150									℃

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

Fig. 1 Forward Current Derating Curve

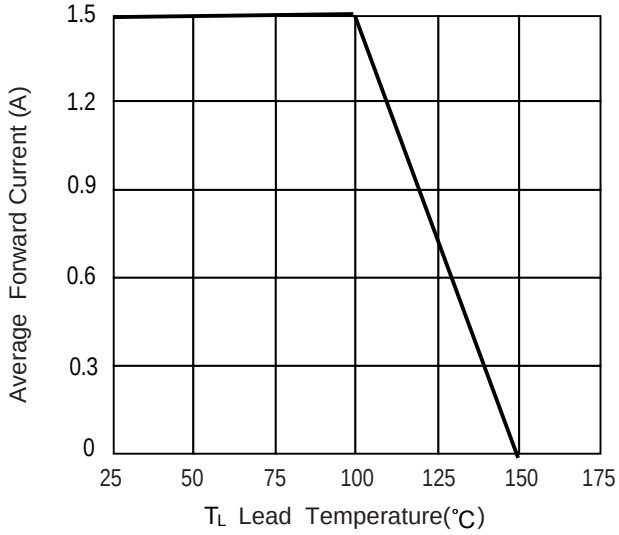


Fig. 2 Typ. Forward Characteristics

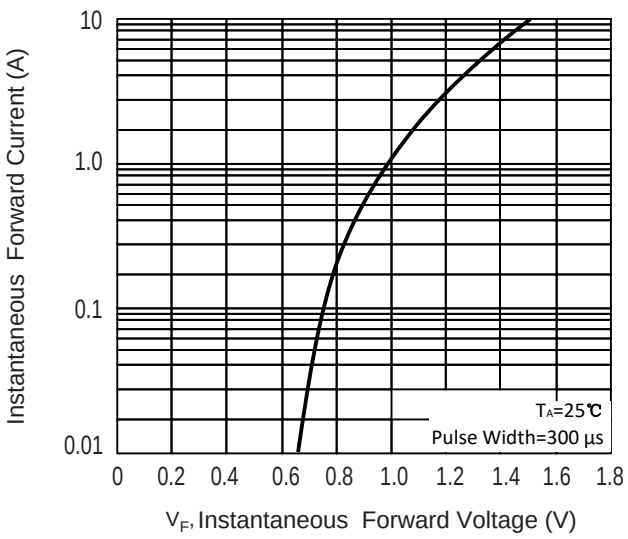


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

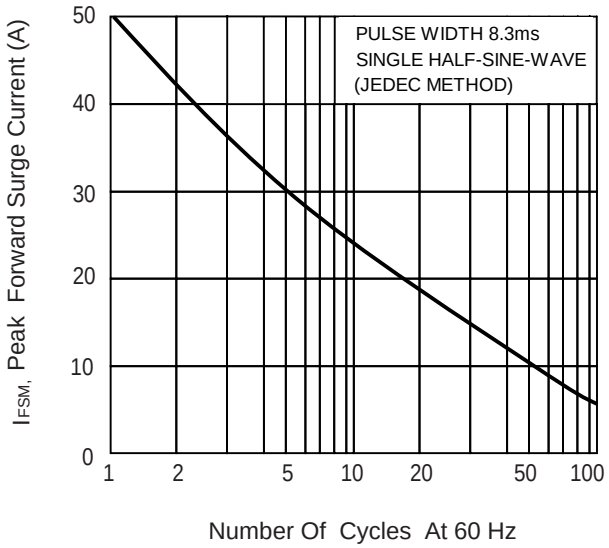


Fig.4 Typical Junction Capacitance

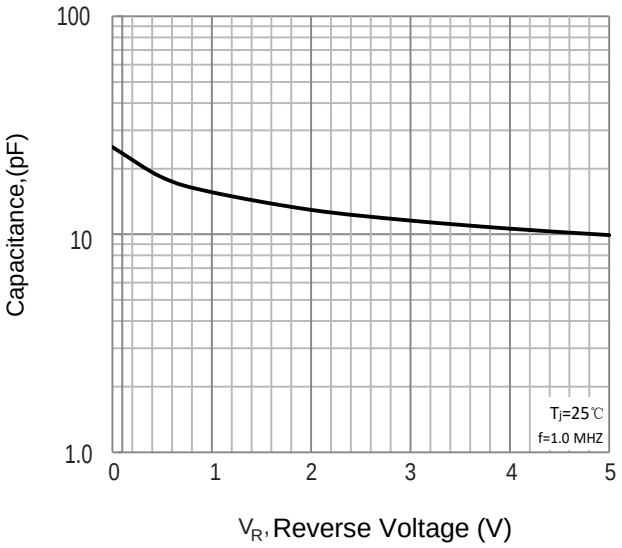
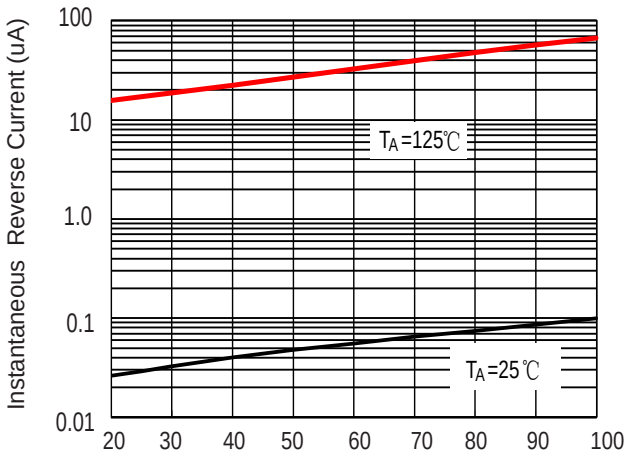


Fig.5 Typical Reverse Chracteristics



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