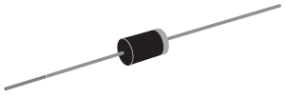
GLASS PASSIVATED RECTIFIER
1N5391G~1N5399G

Glass Passivated Rectifier

Features

- Low reverse leakage
- Glass passivated chip juntion
- High forward surge current capability
- High temperature soldering guaranteed 260°C/10 seconds /.0375" (9.5mm) lead length
- RoHS and REACH compliance



DO204AC
(DO-15)

RoHS
COMPLIANT

Mechanical Data

Case:	DO-15, transfer molded plastic
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Plated axial leads, solderable per MIL-STD-202E, Method 208C
Polarity:	Cathode indicated by color band
Mounting position:	Any
Weight:	0.014 Ounce, 0. 39 gram

Maximum Ratings *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	1N5391 G	1N5393 G	1N5394 G	1N5395 G	1N5397 G	1N5398 G	1N5399 G	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	200	300	400	600	800	1000	V	
VRMS	Max RMS Voltage	35	140	210	280	420	560	700	V	
VDC	Max DC Blocking Voltage	50	200	300	400	600	800	1000	V	
IF(AV)	Max Average Forward Rectified Current	1.5							A	.0375" (9.5mm) lead length at TA=75℃
IFSM	Peak Forward Surge Current	50							A	8.3ms single half sine-wave (JEDEC)
IR(AV)	Max Full Load Reverse Current	30							μA	Full cycle average .0375" (9.5mm) lead length
TJ, TSTG	Operating and Storage Temperature Range	-65 to +175							℃	

Electrical Characteristics *(T Ambient=25ºC unless noted otherwise)*

Symbol	Description	1N5391G	1N5393G	1N5394G	1N5395G	1N5397G	1N5398G	1N5399G	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.1							V	IF(AV)=1.0A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	TA=25℃
		50								TA=100℃
CJ	Typical Junction Capacitance	20							pF	At 1MHz, reversed voltage of 4V
RθJA	Typical Thermal Resistance	50							℃/W	**Note 2**

Note:

1. Single phase, half wave, 60Hz, resistive or inductive load. Derate current by 20% for capacitive load
2. Thermal resistance from junction to ambient at .375" (9.5mm) lead length, PCB mounted with copper pad area of 0.2" x 0.2" (5x5mm).

Typical Characteristics Curves:

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

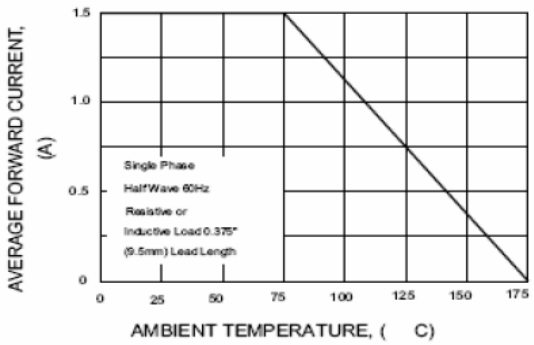


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

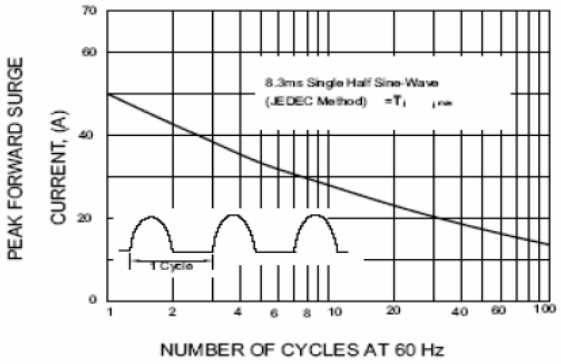


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

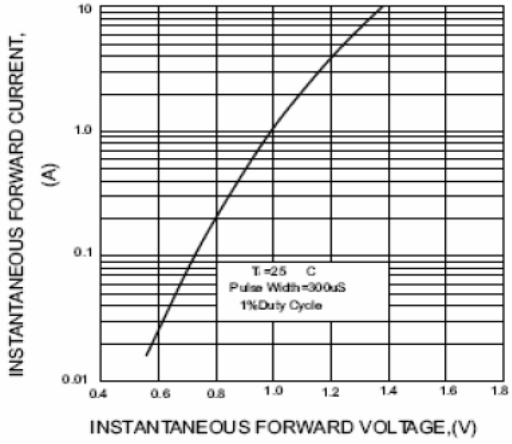


FIG.4-TYPICAL REVERSE CHARACTERISTICS

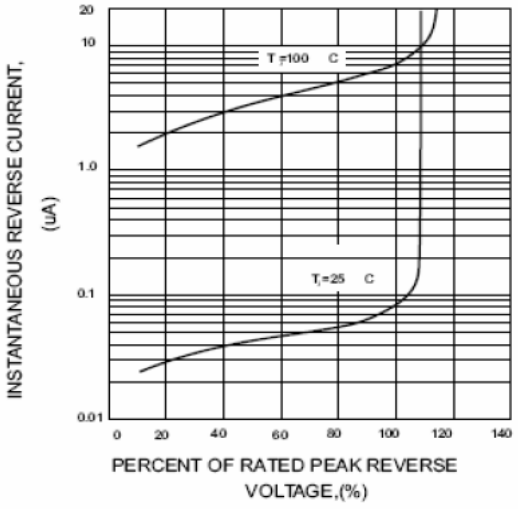
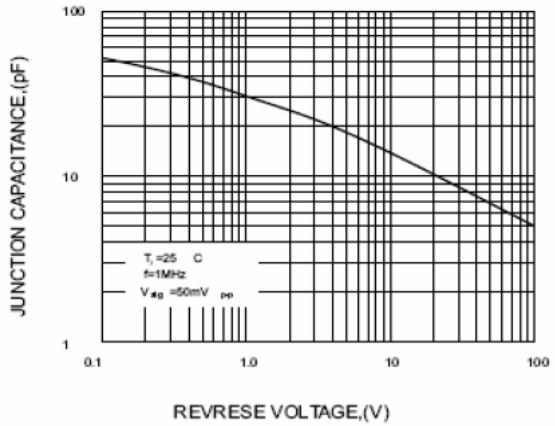
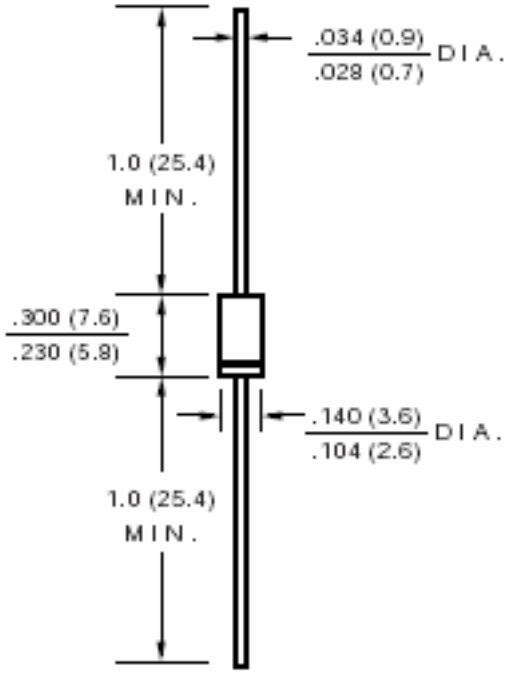


FIG.5-TYPICAL JUNCTION CAPACITANCE



Dimensions in inch (mm)



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