1N5399G-E-47L

GENERAL PURPOSE
GLASS PASSIVATED JUNCTION RECTIFIER
VOLTAGE: 1000V **CURRENT: 1.5A**

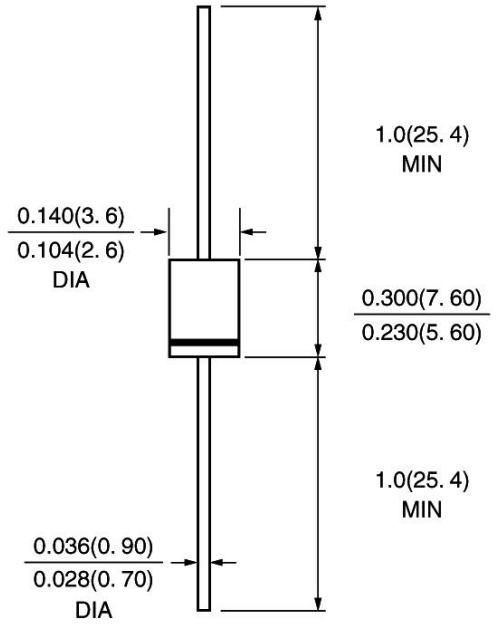
FEATURE

Molded case feature for auto insertion
Glass Passivated junction
High current capability
Low leakage current
High surge capability
High temperature soldering guaranteed
260°C/10sec/0.375”lead length
Halogen Free

MECHANICAL DATA

Terminal: Plated axial leads solderable per J-STD-002
Case: Molded with UL-94 Class V-0 recognized Halogen Free Epoxy
Polarity: color band denotes cathode
Mounting position: any

DO-15\DO-204AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	1N5399G-E-47L	units
* Maximum Recurrent Peak Reverse Voltage	Vrrm	1000	V
* Maximum RMS Voltage	Vrms	700	V
* Maximum DC blocking Voltage	Vdc	1000	V
* Maximum Average Forward Rectified Current 3/8”lead length at Ta =55°C	If(av)	1.5	A
* Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	50.0	A
* Maximum Instantaneous Forward Voltage at rated Forward Current	Vf	1.4	V
* Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	10.0 200.0	μA
Typical Reverse Recovery Time (Note1)	Trr	2000	nS
Typical Junction Capacitance (Note 2)	Cj	15.0	pF
Typical Thermal Resistance (Note 3)	Rth(ja)	50.0	°C/W
* Storage and Operation Junction Temperature	Tstg	-50 to +150	°C

Note:
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0 MHz and applied voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 0.375”lead length, P.C. Board Mounted
* JEDEC Registered value

RATINGS AND CHARACTERISTIC CURVES 1N5399G-E-47L

Fig. 1 Forward Current Derating Curve

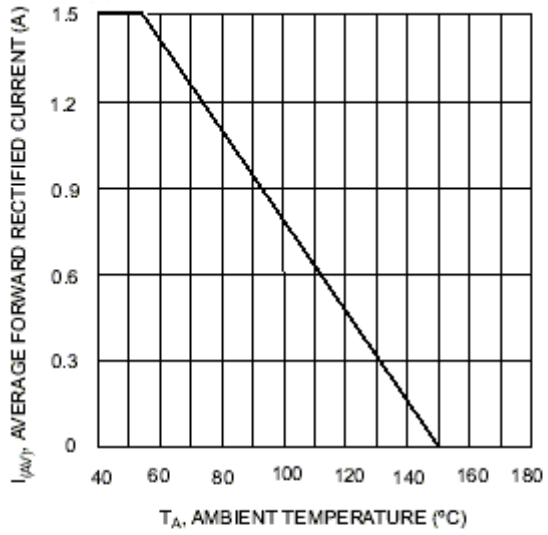


Fig. 2 Typical Forward Characteristics

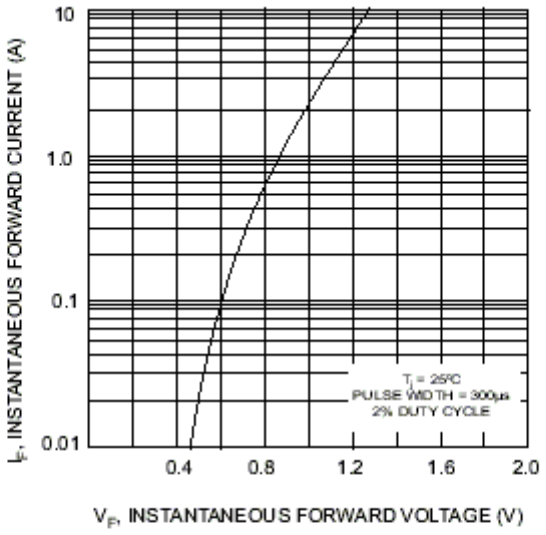


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

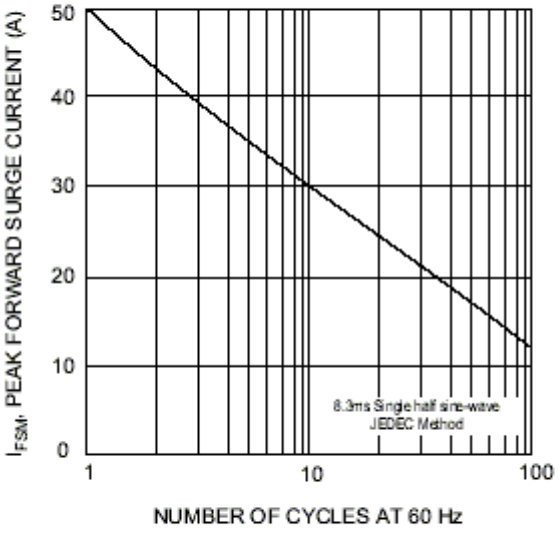


Fig. 4 Typical Junction Capacitance

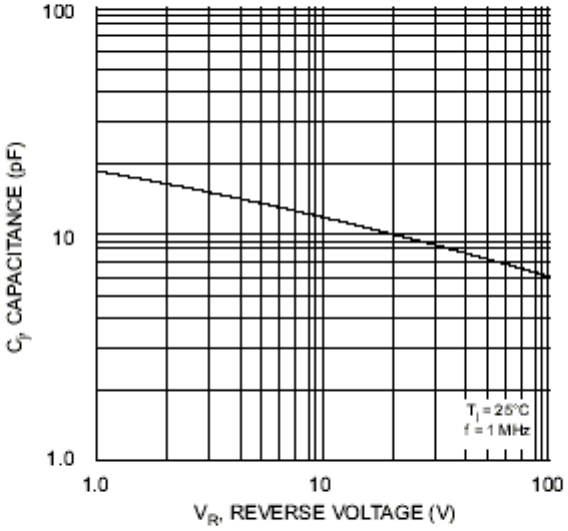


Fig. 5 Typical Reverse Characteristics

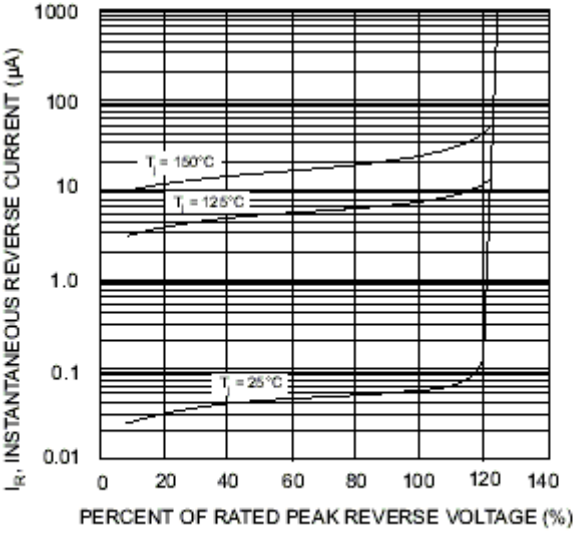


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE