1N5399-E

GENERAL PURPOSE PLASTIC RECTIFIER

VOLTAGE: 1000V CURRENT: 1.5A



FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
High surge capability

High temperature soldering guaranteed 250°C/10sec/0.375"lead length at 5 lbs tension

Halogen Free

MECHANICAL DATA

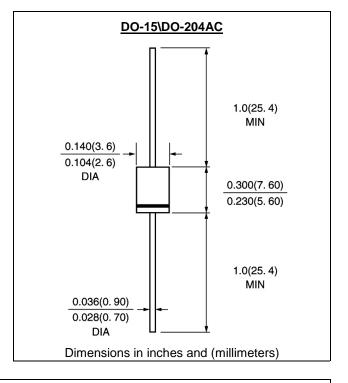
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Halogen

Free Epoxy

Polarity: color band denotes cathode

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	1N5399-E	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 =25°C	If(av)	1.5	А
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	50.0	А
Maximum Instantaneous Forward Voltage at 1.5A	Vf	1.4	V
 Maximum full load reverse current full cycle at T_L =70°C 	Ir(av)	300.0	μΑ
* Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	10.0 200.0	μА
Typical Junction Capacitance (Note 1)	Cj	15.0	pF
Typical Thermal Resistance (Note 2)	Rth(ja) Rth(jl)	50.0 25.0	°C/W
* Storage and Operation Junction Temperature	Tj, Tstg	-50 to +150	°C

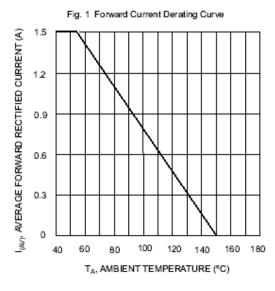
Note:

- 1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to Ambient and from Junction to Lead at 0.375"lead length, P.C. Board Mounted

* JEDEC Registered value

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RATINGS AND CHARACTERISTIC CURVES 1N5399-E



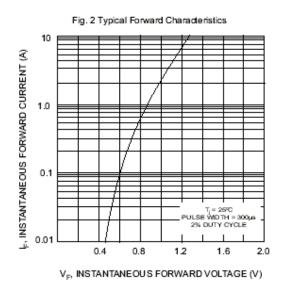


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

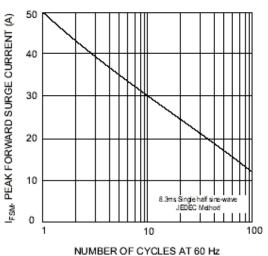


Fig. 4 Typical Junction Capacitance

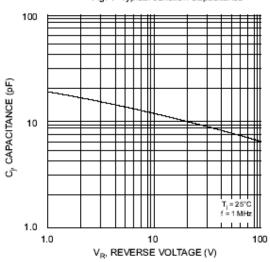
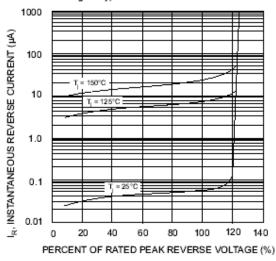
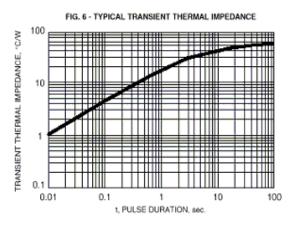


Fig. 5 Typical Reverse Characteristics





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