

CE

CHENYI ELECTRONICS

1N5391G THRU 1N5399G

GENERAL PURPOSE PLASTIC RECTIFIER

Reverse Voltage - 50 to 1000 Volts

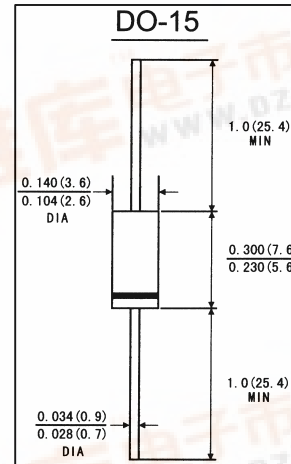
Forward Current - 1.5Amperes

FEATURES

- . The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- . High current capability
- . Low reverse leakage
- . Glass passivated junction
- . Low forward voltage drop
- . High temperature soldering guaranteed: 350°C/10 seconds, 0.375"(9.5mm)lead length,5lbs.(2.3kg)tension

MECHANICAL DATA

- . **Case:** JEDEC DO-15 molded plastic body
- . **Terminals:** Plated axial lead solderable per MIL-STD-750,method 2026
- . **Polarity:** Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.014 ounce, 0.39 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified,Single phase,half wave 60Hz,resistive or inductive)

load. For capacitive load,derate by 20%)

	Symbols	1N 5391G	1N 5392G	1N 5393G	1N 5394G	1N 5395G	1N 5396G	1N 5397G	1N 5398G	1N 5399G	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at T _A =70℃ (see Fig.1)	I _(AV)	1.5									Amps
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)	I _{FSM}	50.0									Amps
Maximum instantaneous forward voltage at 1.5 A		V _F	1.4								Volts
Maximum reverse current at rated DC blocking voltage	T _A =25℃	I _R	5.0								μ A
	T _A =125℃		50.0								
Typeical thermal resistance(Note 2)	R θ _{JA}	50.0								℃/W	
	R θ _{JL}	25.0									
Typical junction Capacitance(Note 1)		C _J	20.0								pF
Maximum DC Blocking Voltage temperature		T _A	+150								℃
Operating and storage temperature range	T _J	-65 to +175								℃	
	T _{STG}										

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC

2.Thermal resistance from juntion to ambient and from junction lead at 0.375"(9.5mm)lead length,

P.C.B. Mounted



RATINGS AND CHARACTERISTIC CURVES 1N5391G THRU 1N5399G

FIG.1-FORWARD CURRENT DERATING CURVE

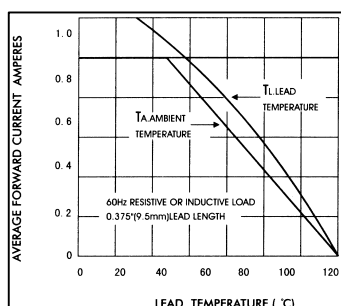


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

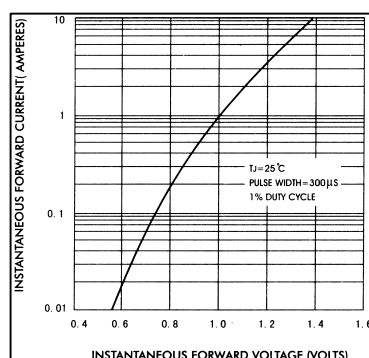


FIG.3-TYPICAL REVERSE CHARACTERISTICS

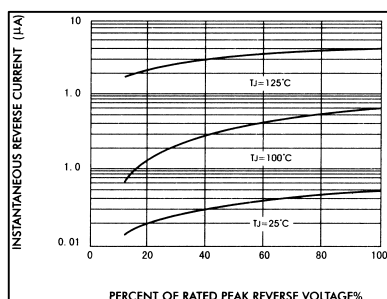


FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

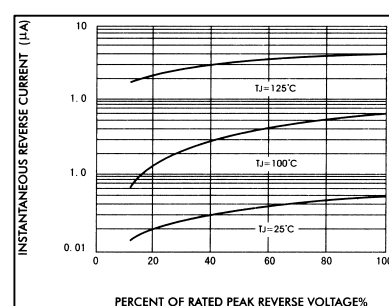


FIG.5-TYPICAL JUNCTION CAPACITANCE

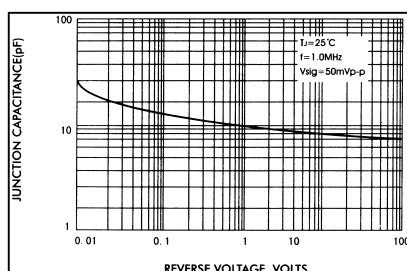


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

