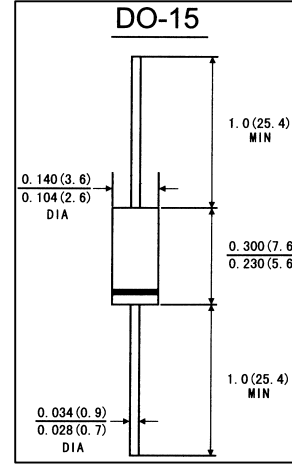


### FEATURES

- . 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

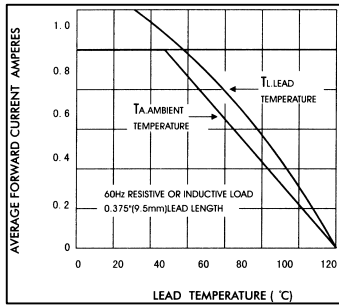
(Ratings at 25°C ambient temperature unless otherwise specified,Single phase,half wave 60Hz,resistive or inductive) load. For capacitive load,derate by 20%)

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

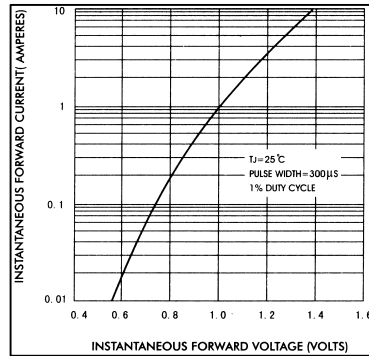
- Notes:** 1. Measured at 1MHz and applied reverse voltage of 4.0V DC  
 2. Thermal resistance from junction to ambient and from junction lead at 0.375"(9.5mm)lead length,  
 P.C.B. Mounted

### RATINGS AND CHARACTERISTIC CURVES 1N5391G THRU 1N5399G

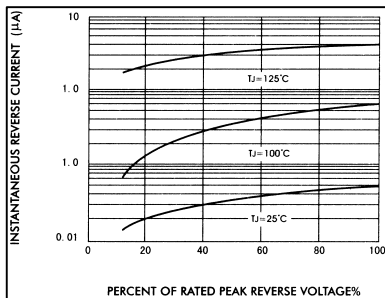
**FIG.1-FORWARD CURRENT DERATING CURVE**



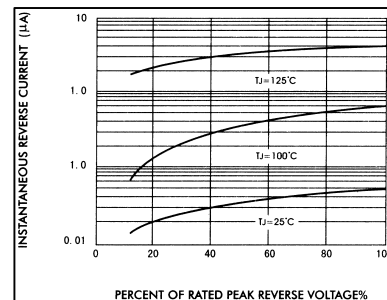
**FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



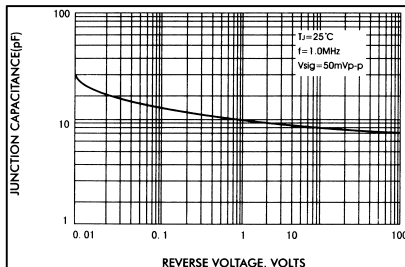
**FIG.3-TYPICAL REVERSE CHARACTERISTICS**



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



**FIG.5-TYPICAL JUNCTION CAPACITANCE**



**FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE**

