

1N5391 THRU 1N5399

GENERAL PURPOSE PLASTIC RECTIFIER

VOLTAGE: 50 to 1000V

CURRENT: 1.5A



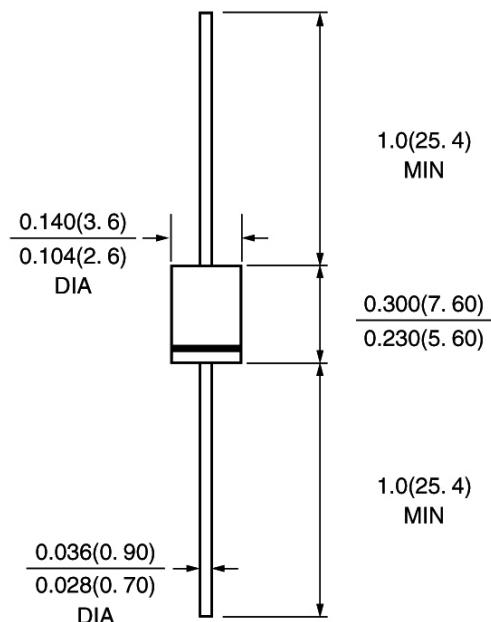
FEATURE

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

MECHANICAL DATA

Terminal:Plated axial leads solderable per
MIL-STD 202E, method 208C
Case:Molded with UL-94 Class V-0 recognized Flame
Retardant 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	1N5 391	1N5 392	1N5 393	1N5 394	1N5 395	1N5 396	1N5 397	1N5 398	1N5 399	units
* Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	300	400	500	600	800	1000	V
* Maximum RMS Voltage	Vrms	35	70	140	210	280	350	420	560	700	V
* Maximum DC blocking Voltage	Vdc	50	100	200	300	400	500	600	800	1000	V
* Maximum Average Forward Rectified Current 3/8"lead length at Ta =25°C	If(av)										A
* Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm										A
* Maximum Instantaneous Forward Voltage at 1.5A	Vf										V
* Maximum full load reverse current full cycle at T _L =70°C	Ir(av)										µA
* Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir										µA
Rating for fusing (1ms≤ t < 10ms)	I ² t										A ² sec
Typical Junction Capacitance (Note 1)	C _j										pF
Typical Thermal Resistance (Note 2)	R _{th(ja)} R _{th(jc)}										°C/W
* Storage and Operation Junction Temperature	T _j , T _{stg}										°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 case at 0.375"lead length, P.C. Board Mounted
 - * JEDEC Registered value

RATINGS AND CHARACTERISTIC CURVES 1N5391 THRU 1N5399

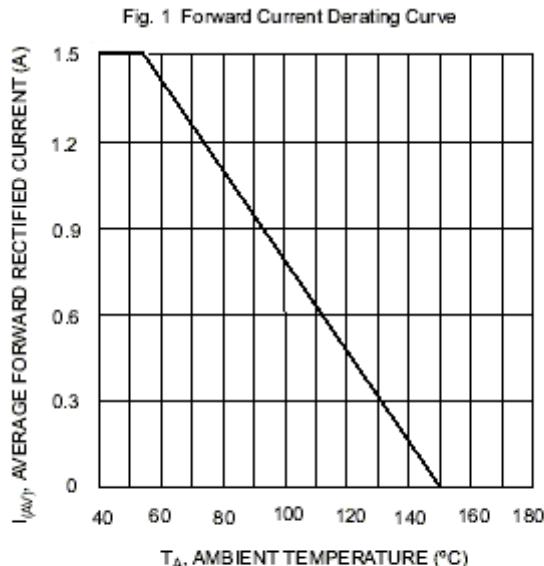


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

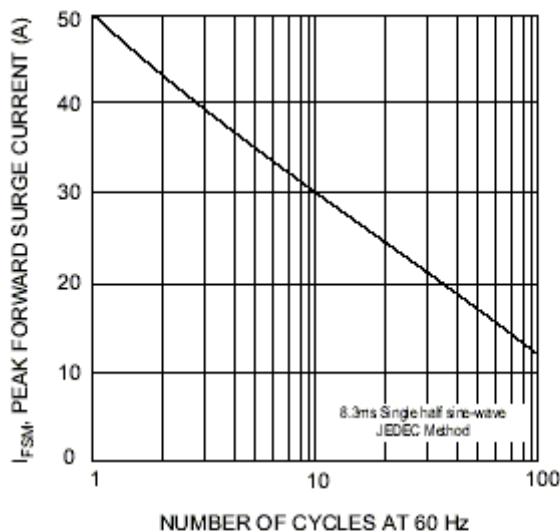


Fig. 5 Typical Reverse Characteristics

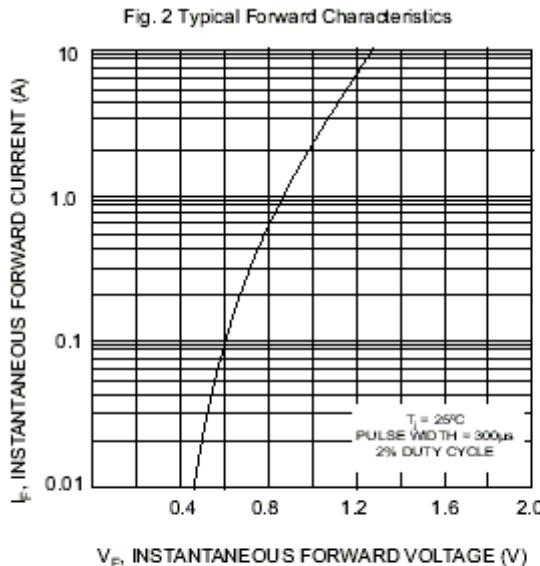
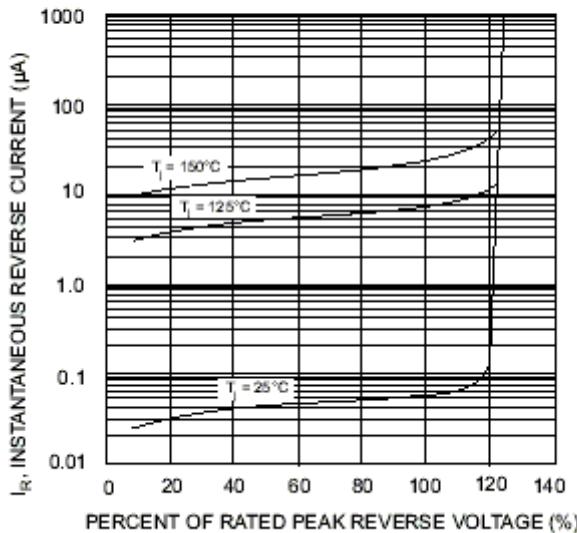


Fig. 4 Typical Junction Capacitance

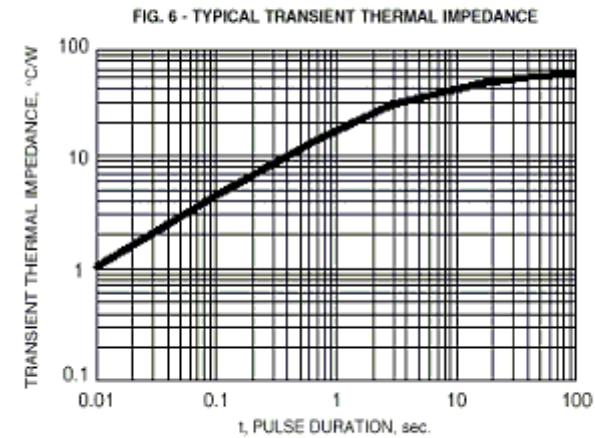
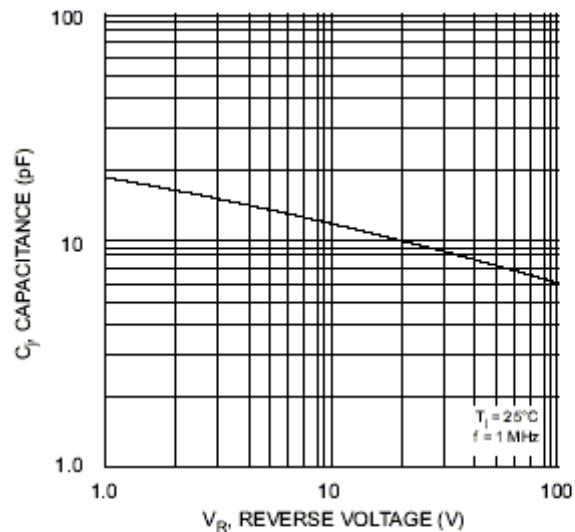


Fig. 7 — Maximum Non-Repetitive Peak Forward Surge Current
(0.5ms~10ms)

