# 1N5391 THRU 1N5399

# GENERAL PURPOSE PLASTIC RECTIFIER

VOLTAGE: 50 to 1000V CURRENT: 1.5A

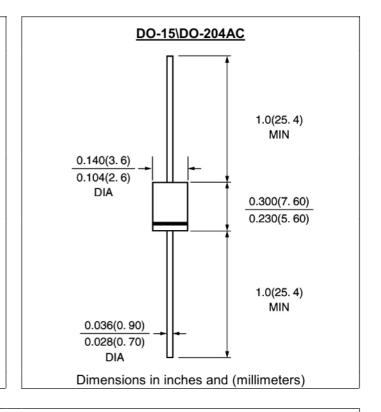


## **FEATURE**

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



## 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
<ul> <li>Maximum Average Forward Rectified Current 3/8"lead length at Ta =25°C</li> </ul>	If(av)	1.5									Α
<ul> <li>Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load</li> </ul>	Ifsm	50.0									Α
<ul> <li>Maximum Instantaneous Forward Voltage at 1.5A</li> </ul>	Vf	1.4									V
Maximum full load reverse current full cycle at T <sub>L</sub> =70°C	Ir(av)	300.0								μA	
<ul> <li>Maximum DC Reverse Current at rated DC blocking voltage</li> <li>Ta =25°C</li> <li>Ta =125°C</li> </ul>	lr	10.0 200.0									μA
Rating for fusing (1ms≤ t < 10ms)	l <sup>2</sup> t	12.5									A <sup>2</sup> sec
Typical Junction Capacitance (Note 1)	Cj	15.0									pF
Typical Thermal Resistance (Note 2)	Rth(ja) Rth(jc)	50 13									°C/W
* Storage and Operation Junction Temperature	Tj, Tstg	-50 to +150								°C	

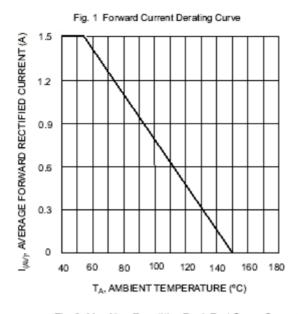
#### Note:

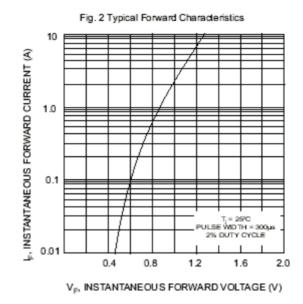
- 1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
- 2. Thermal Resistance from junction to ambient and from junction to case at 0.375"lead length, P.C. Board Mounted

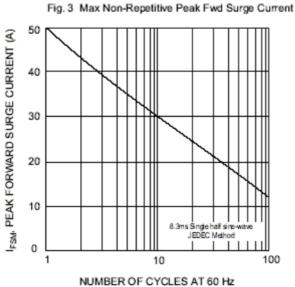
\* JEDEC Registered value

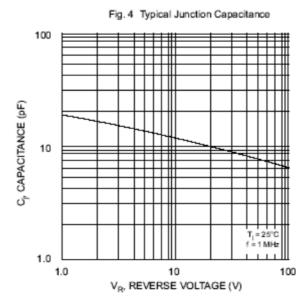
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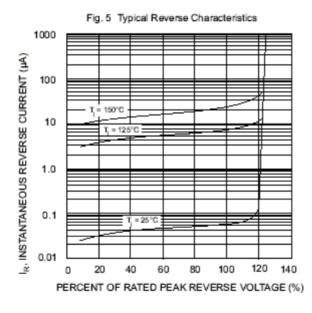
#### **RATINGS AND CHARACTERISTIC CURVES 1N5391 THRU 1N5399**

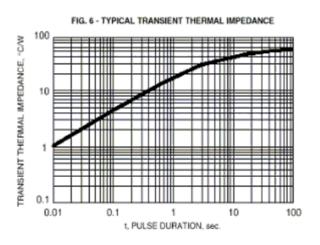




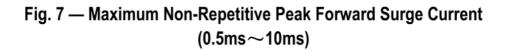


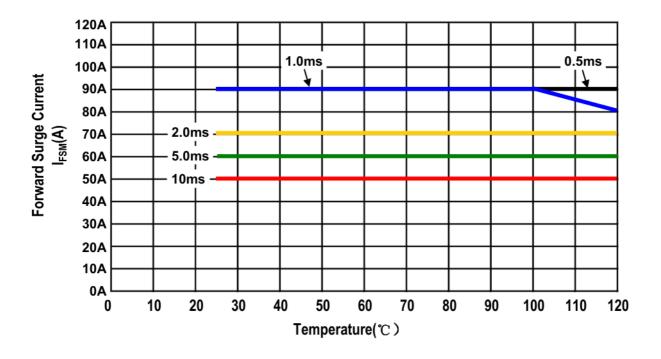






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