## 1N5391S THRU 1N5399S

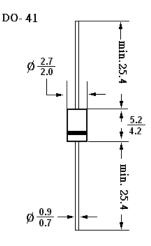
## GENERAL PURPOSE PLASTIC SILICON RECTIFIERS Reverse Voltage – 50 to 1000 Volts Forward Current – 1.5 Ampere

#### **Features**

- Low cost
- High current capability
- Plastic package has Underwriters Laboratory Flammabiliy Classification 94V-O ctilizing Flame Retardant Epoxy Molding Compound
- Low leakage

### **MECHANICAL DATA:**

- Case: Molded plastic, DO-41
- Terminals: Plated axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end



Dimensions in mm

### **Absolute Maximum Ratings and Characteristics**

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

	Symbols	1N 5391S	1N 5392S	1N 5393S	1N 5394S	1N 5395S	1N 5396S	1N 5397S	1N 5398S	1N 5399S	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current 0.375", 9.5 mm Lead Length at $T_A$ =60°C	I <sub>(AV)</sub>	1.5									А
Peak Forward Surge Current 8.3ms single half sine-wave	I <sub>FSM</sub>	50									А
Maximum Forward Voltage at 1.5A DC and 25℃	V <sub>F</sub>	1.4									V
Maximum Reverse Current, at T <sub>A</sub> =25℃ At Rated DC Blocking Voltage T <sub>A</sub> =100℃	I <sub>R</sub>	5 500									μΑ
Typical Junction Capacitance (Note 1)	CJ	25									pF
Typical Thermal Resistance (Note 2)	R⊕JA	26									°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150									$^{\circ}\!\mathbb{C}$

#### Notes:

- 1. Measured at 1 MHz and applied reverse voltage of 4  $V_{\text{DC}}$ .
- 2. Thermal resistance junction to ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. mounted.



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