

1N5391 THRU 1N5399

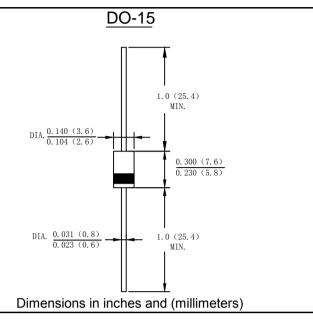
1.5 AMP.Plastic silicon Rectifier

Features

- · Low forward voltage drop
- · High current capability
- · High reliability
- · High surge current capability

Mechanical Data

- Case: Molded plastic DO-15
- Terminals: Axial leads solderable to MIL-STD-202.Method 208
- · Polarity: Color band dentes cathode end
- Mounting Position: Any



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	1N 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RM}	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
Average Rectified Output Current (Note 1) @TL=90°C	I F(AV)	1.5									А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	50									А
I ² t Rating for Fusing (t < 8.3ms)	l ² t	10.375								A^2s	
Forward Voltage @IF=1.5A	V _{FM}	1.1									V
Peak Reverse Current @T _A =25°C	1-	5.0 100									uA
At Rated DC Blocking Voltage @T _A =100°C	· I _R										
Typical Junction Capacitance (Note 2)	Cj	12									pF
Typical Thermal Resistance Junction to Ambient (Note 3)	RөJA	65								°C/W	
Operating Temperature Range	Tj	-55 to +150								${\mathbb C}$	
Storage Temperature Range	Тѕтс	-55 to +150								${\mathbb C}$	

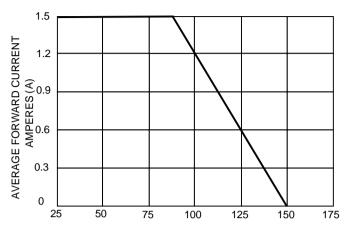
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

- 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 3.P.C.B.mounted with 0.2×0.2" (5.0×5.0mm) copper pad areas



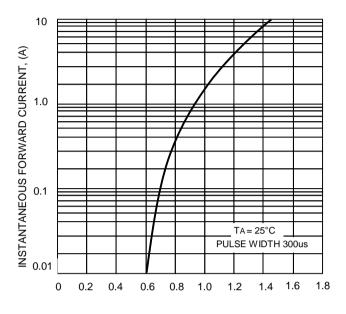
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FIG. 1 – FORWARD CURRENT DERATING CURVE



LEAD TEMPERATURE, ℃

FIG.2-TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE (V)

FIG. 3 - MAXIMUM NON-REPETITIVE SURGE CURRENT

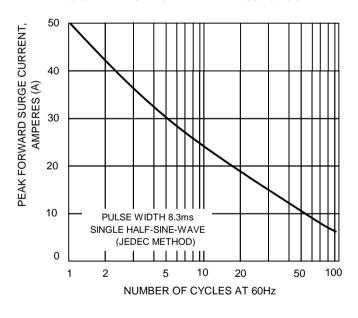
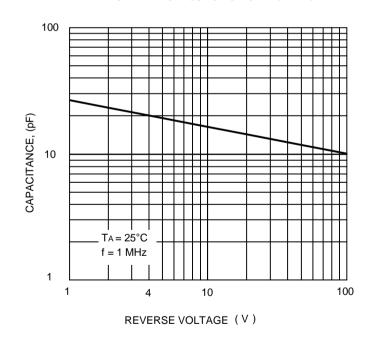


FIG.4 - TYPICAL JUNCTION CAPACITANCE



version:04 2of3 www.dyelec.com



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