

## DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N5391 THRU 1N5399

# TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.5 Amperes

#### **FEATURES**

- \* Low cost
- \* Low leakage current
- \* Low forward voltage drop
- \* High current capability

#### **MECHANICAL DATA**

\* Case: Molded plastic

\* Epoxy: UL 94-V0 rate flame retardant

\* Lead: MIL-STD-202E, Method 208 guaranteed

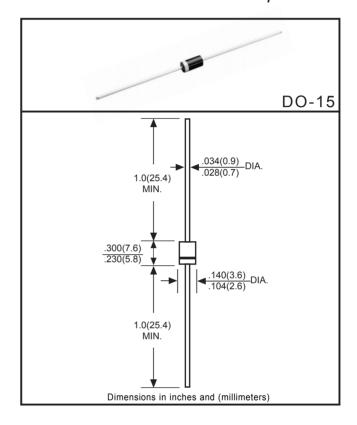
\* Polarity: Color band denotes cathode end

\* Mounting position: Any

\* Weight: 0.33 gram

#### 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 current by 20%.



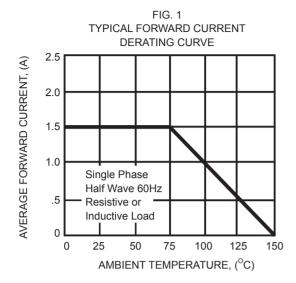
	SYMBOL	1N5391	1N5392	1N5393	1N5395	1N5397	1N5398	1N5399	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375" (9.5mm) lead length at TA = 75°C	lo	1.5						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM				50				Amps
Maximum Instantaneous Forward Voltage at 1.5A DC		1.1						Volts	
Maximum DC Reverse Current at Rated @TJ = 25°C	- IR	5.0 500							μAmps
DC Blocking Voltage @TJ = 125°C	;								
Typical Junction Capacitance (Note 1)	CJ	20					рF		
Typical Thermal Resistance (Note 2)	RθJA	50					°C/W		
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150				°C			

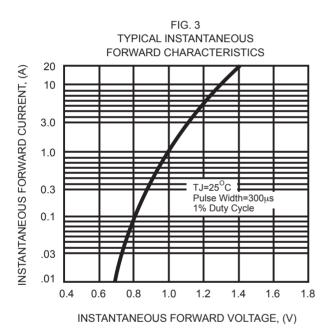
Note 1 :Measured at 1 MHz and applied reverse voltage of 4.0 volts.

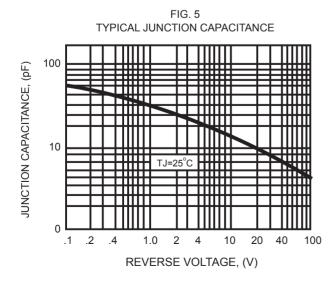
Note 2 :Typical thermal resistsnce from junction to ambient.

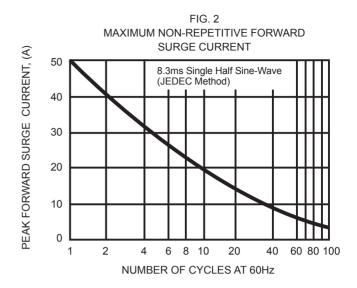
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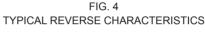
### **RATING AND CHARACTERISTIC CURVES (1N5391 THRU 1N5399)**

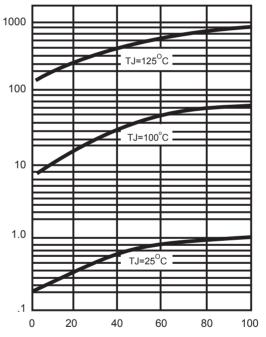












PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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INSTANTANEOUS REVERSE CURRENT, (µA)

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