

IN5391 thru IN5399

PLASTIC SILICON RECTIFIER



**CHENG-YI
ELECTRONIC**



VOLTAGE RANGE 50 TO 1000 Volts
CURRENT 1.5 Ampere

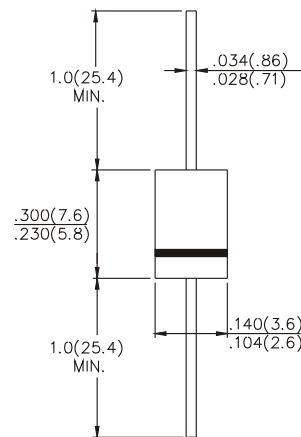
FEATURE

- Low forward voltage
- High current capability
- Low leakage current
- High surge capability
- Low cost

MECHANICAL DATA

- Case: Molded plastic use UL 94V-0 recognized Flame retardant epoxy
- Terminals: Axial leads, solderable per MIL-STD-202, method 208
- Polarity: Color band denotes cathode
- Mounting Position: Any

DO-15



Dimensions in inches and (millimeters)

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%.

	IN5391	IN5392	IN5393	IN5394	IN5395	IN5396	IN5397	IN5398	IN5399	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current .375", (9.5mm) Lead Length at $T_A = 70^\circ\text{C}$	1.5									A
Peak Forward Surge Current 8.3 ms single half sine-wave	60									A
Maximum Forward Voltage at 1.5A Peak	1.1									V
Maximum Reverse Current, Rated DC Blocking Voltage	5.0									μA
Maximum Full Load Reverse Current, Full Cycle Average, .375", (9.5mm) Lead Length at $T_A = 55^\circ\text{C}$	30									μA
Typical Junction Capacitance (Note 1)	25									pF
Typical Reverse Recovery Time (Note 2)	2									μS
Operating and Storage Temperature Range T_A	-65 to +175									$^\circ\text{C}$

Notes : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V_{DC}
2. Measured with $I_F = 0.5\text{A}$, $I_R = 1\text{A}$, $I_{RR} = .25\text{A}$

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RATING AND CHARACTERISTICS CURVES IN5391 THRU IN5399

Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

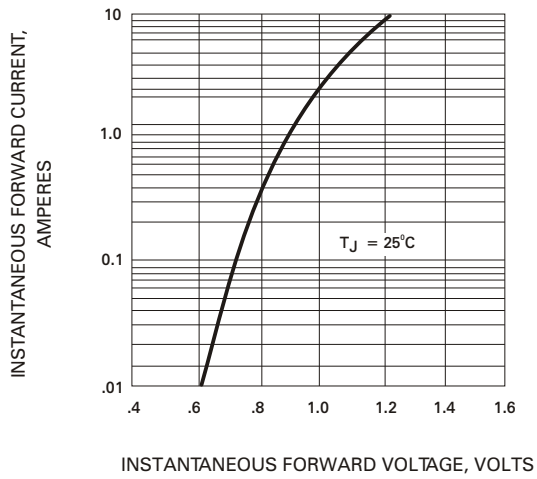


Fig. 2 - PEAK FORWARD SURGE CURRENT

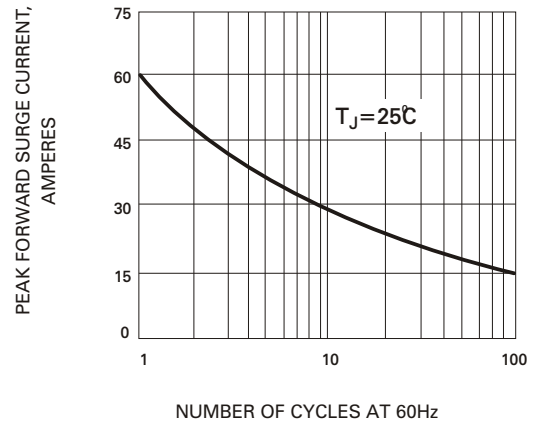


Fig. 3 - FORWARD CURRENT DERATING CURVE

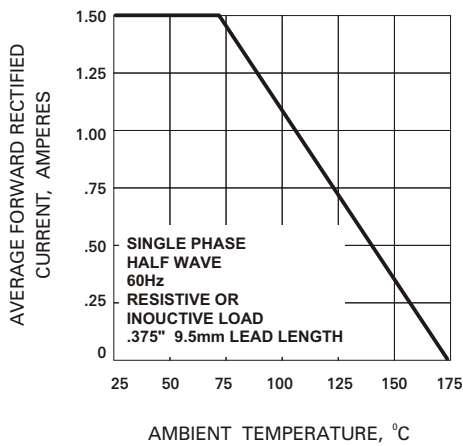


Fig. 4 - TYPICAL JUNCTION CAPACITANCE

