

# IN4001 thru IN4007

PLASTIC SILICON RECTIFIER



**CHENG-YI  
ELECTRONIC**



VOLTAGE RANGE 50 TO 1000 Volts  
CURRENT 1.0 Ampere

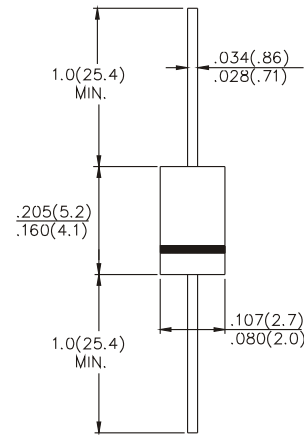
## FEATURE

- 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-41



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	IN4001	IN4002	IN4003	IN4004	IN4005	IN4006	IN4007	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 3/8 Lead Length at $T_A = 75^\circ\text{C}$	1.0							A
Maximum Overload Surge 8.3 ms single half sine-wave	50							A
Maximum Forward Voltage at 1.0A AC and $25^\circ\text{C}$	1.1							V
Maximum Full Load Reverse Current, Full Cycle Average at $75^\circ\text{C}$ Ambient	30							$\mu\text{A}$
Maximum DC Reverse Current at $25^\circ\text{C}$ at Rated DC Blocking Voltage at $75^\circ\text{C}$	5.0							$\mu\text{A}$
	50.0							$\mu\text{A}$
Typical Junction Capacitance (Note 1)	30							pF
Operating and Storage Temperature Range	-65 to +175							$^\circ\text{C}$

Notes : 1. Measured at 1.0MHz and applied reverse voltage of 4.0 VDC.

\* JEDEC Registered Value.

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### RATING AND CHARACTERISTICS CURVES IN4001 THRU IN4007

Fig.1 - TYPICAL REVERSE CHARACTERISTICS

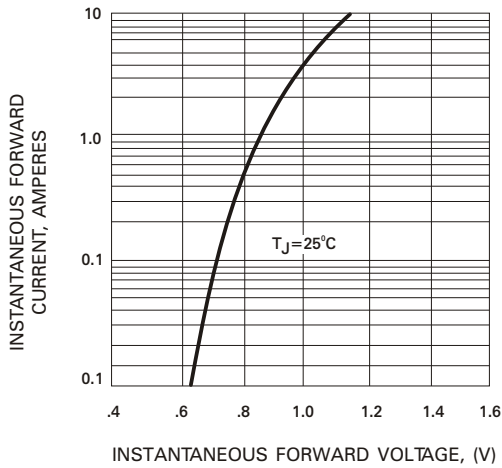


Fig.2 - PAKK FORWARD SURGE CURRENT

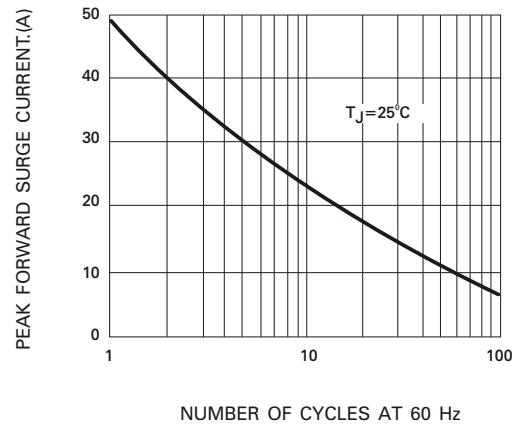


Fig.3 - FORWARD CURRENT DERATING CURVE

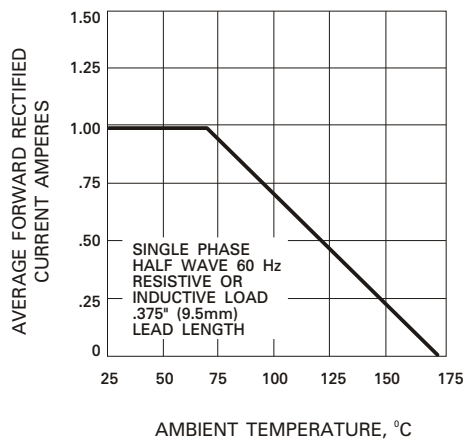


Fig.4 - TYPICAL JUNCTION CAPACITANCE

