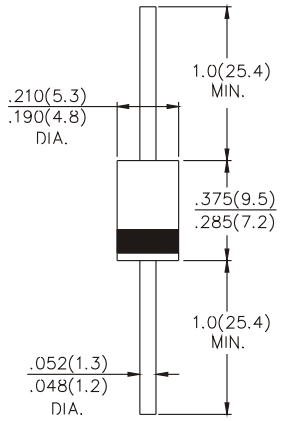
IN5400 thru IN5408

PLASTIC SILICON RECTIFIER

CHENG-YI ELECTRONIC

VOLTAGE RANGE 50 TO 1000 Volts
CURRENT 3.0 Amperes

DO-201AD



Dimensions in inches and (millimeters)

FEATURE

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

MECHANICAL DATA

- Case:Mold 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

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%.

	IN5400	IN5401	IN5402	IN5403	IN5404	IN5405	IN5406	IN5407	IN5408	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 to T_A =150°C	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current .5", (12.5mm) Lead Length at T_A =75°C	3.0									A
Peak Forward Surge Current 8.3 ms single half sine-wave	150									A
Maximum Forward Voltage at 3.0A Peak	1.2									V
Maximum Reverse Current, T_A =25°C	10									μA
at Rated DC Blocking Voltage T_A =55°C	500									μA
Maximum Full Load Reverse Current, Full Cycle Averge, .5", (12.5mm) Lead Length T_A =105°C	500									μA
Typical Junction Capacitance (Note 1)	50									pF
Storage Temperature Range T_A	-65 to +175									°C
Operating Temperature Range T_J	-65 to +170									°C

Notes : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V_{DC}
* JEDEC Registered Value.

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RATING AND CHARACTERISTICS CURVES
IN5400 THRU IN5408

Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

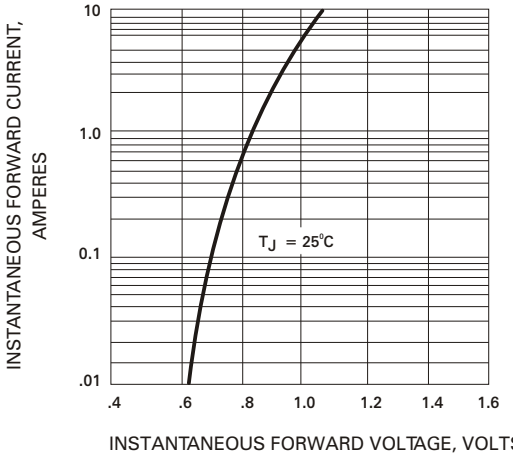

Fig. 2 - PEAK FORWARD SURGE CURRENT

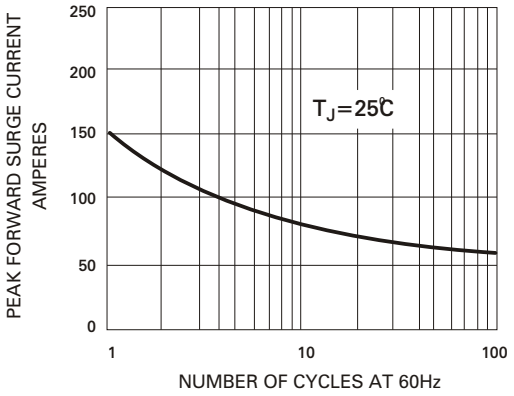

Fig. 3 - FORWARD CURRENT DERATING CURVE

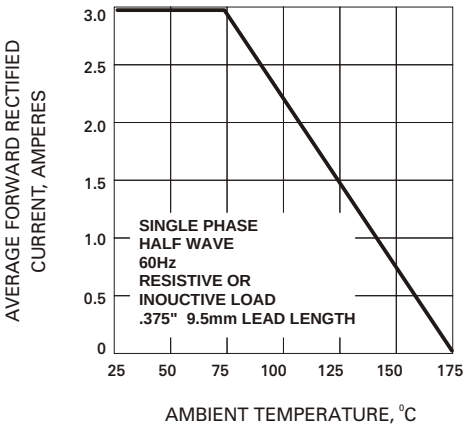

Fig. 4 - TYPICAL JUNCTION CAPACITANCE