



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 2790-0314 FAX: 2790-0206



GENERAL PURPOSE SILICON RECTIFIER

IN5400
THRU
IN5408

<p>FEATRURES</p> <p>Low cost construction Low forward voltage drop Low reverse leakage High forward surge current capability High temperature soldering guaranteed: 260°C / 10 seconds / 375" (9.5mm) lead length at 5lbs (2,3kg) tension</p> <p>MECHANICAL DATA</p> <p>Case: Transfer molded plastic Epoxy: UL94V-0 rate flame retardant. Polarity: Color band denotes cathode end Lead: Plated axial lead, solderable per MIL-STD-202E method 208C Mounting position: Any Weight: 0.042 ounce, 1.19 grams</p>	<p>VOLTAGE RANGE 50 to 1000 Volts CURRENT 3.0 Amperes</p> <p style="text-align: center;">DO-27</p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless other wise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load derate current by 20%.

	SYMBOLS	IN5400	IN5401	IN5402	IN5404	IN5406	IN5407	IN5408	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at $T_A = 105^\circ C$	$I_{(AV)}$	3.0							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200							Amps
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_A = 25^\circ C$	10							μ Amps
	$T_A = 150^\circ C$	500							
Maximum Full Load Reverse Current, full cycle average 0.375" (9.5mm) lead length at $T_L = 105^\circ C$	$I_{R(AV)}$	500							μ Amps
Typical Junction Capacitance (Note 1)	C_j	40							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	30							$^\circ C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175							$^\circ C$

NOTES:
1. Measured at 1.0 MHZ and applied reverse voltage of 4.0 volts.
2. Thermal Resistance from Junction to Ambient at 0.5" (12.5mm) lead length, P.C. board mounted with 0.8" x 0.8" (20.0 x 20.0mm) copper heatsink.



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RATINGS AND CHARACTERISTIC CURVES IN5400 THRU IN5408

FIG.1-TYPICAL FORWARD CURRENT

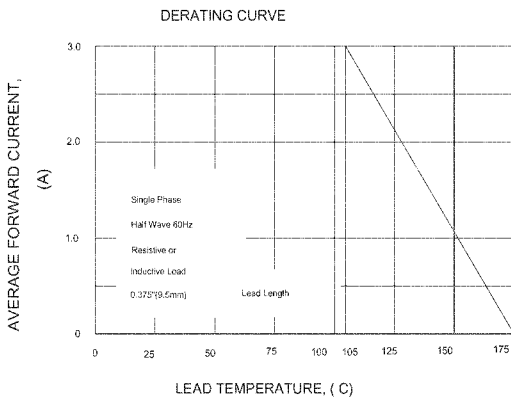


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

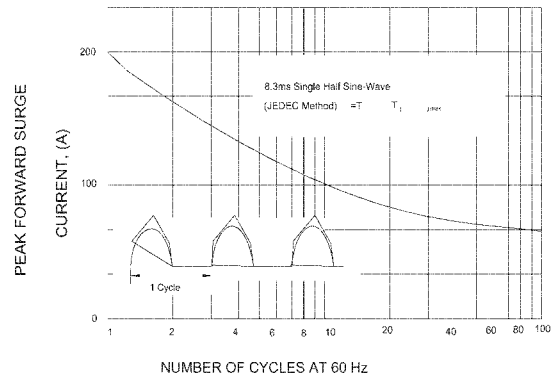


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

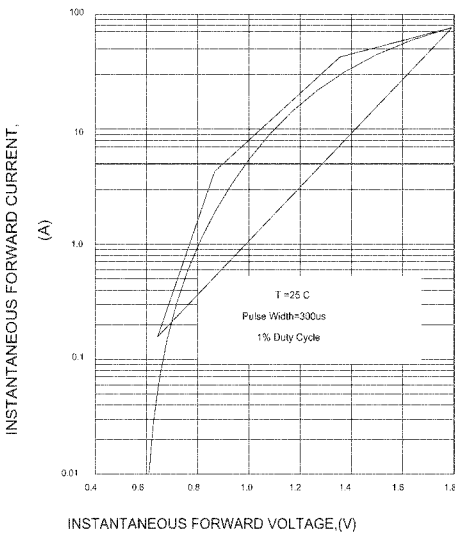


FIG.4-TYPICAL REVERSE CHARACTERISTICS

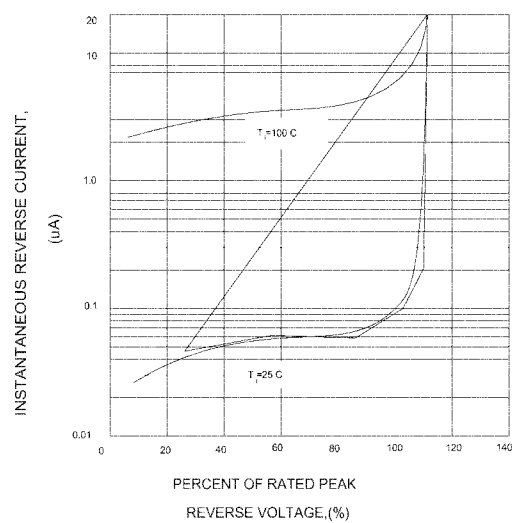


FIG.5-TYPICAL JUNCTION CAPACITANCE

