



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

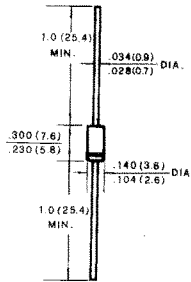
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 2790-0314 FAX: 2790-0206



GENERAL PURPOSE SILICON RECTIFIER

IN5391
THRU
IN5399

FEATRURES	VOLTAGE RANGE 50 to 1000 Volts CURRENT 1.5Amperes
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	 DO-15 Dimensions in inches and (millimeters)
MECHANICAL DATA	
Case: Transfer molded plastic Epoxy: UL94V-0rate flame retardant. Polarity: Color band denotes cathode end Lead: Plated axial lead ,solderable per MIL-STD-202E method 208C Mounting position: Any Weight: 0.014 ounce ,0.39 gram	

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	IN5391	IN5392	IN5393	IN5394	IN5395	IN5396	IN5397	IN5398	IN5399	UNITS
Maximum repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Bolcking Voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T _L = 70°C	I _{L(AV)}	1.5									Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50									Amps
Maximum Instantaneous Forward Voltage at 1.5A	V _F	1.1									Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25°C	I _R	5.0							μ Amps	
	T _A =100°C		50								
Maximum Full Load Reverse Current, full cycle average 0.375"(9.5mm)lead length at T _L =75°C	I _{R(AV)}	30							μ Amps		
Typical Junction Capacitance (Note 1)	C _J	20							pF		
Typical Thermal Resistance (Note 2)	R _{θJA}	50							°C/W		
Operating and Storage Temperature Range	T _J ,T _{STG}	-65 to +175							°C		

NOTES:
1.Measured at 1.0 MHZ and applied reverse voltage of 4.0 Volts.
2.Thermal Resistance from Junction to Ambient at .375"(9.5mm) lead length, P.C. board mounted with 0.2"× 0.2"(5.0× 5.0mm) copper pads.



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RATINGS AND CHARACTERISTIC CURVES IN5391 THRU IN5399

FIG.1-TYPICAL FORWARD CURRENT

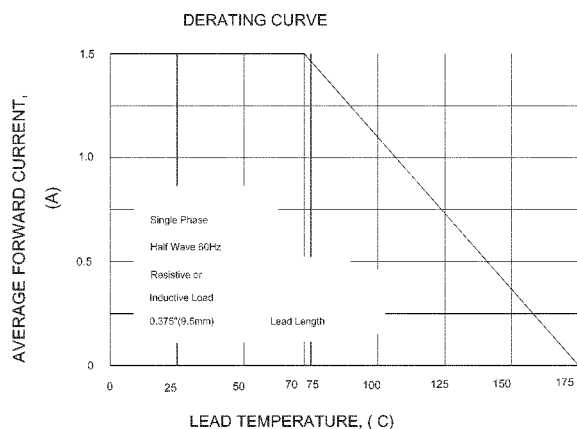


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

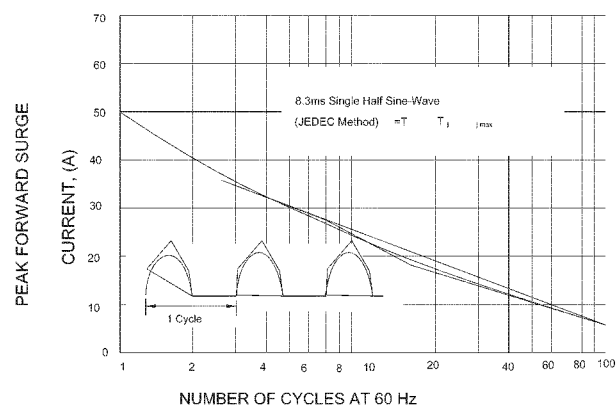


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

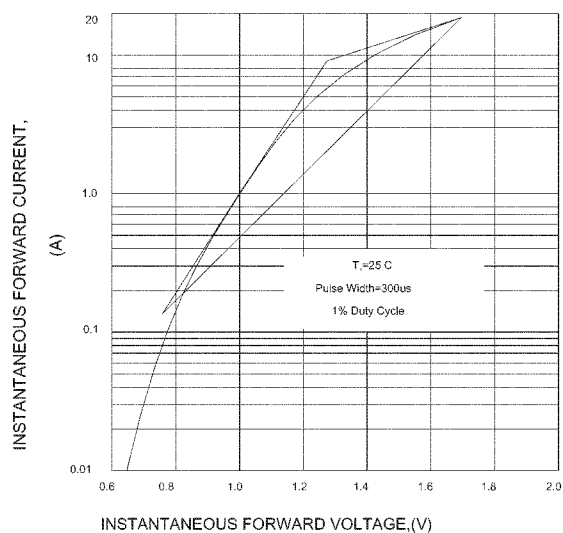


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

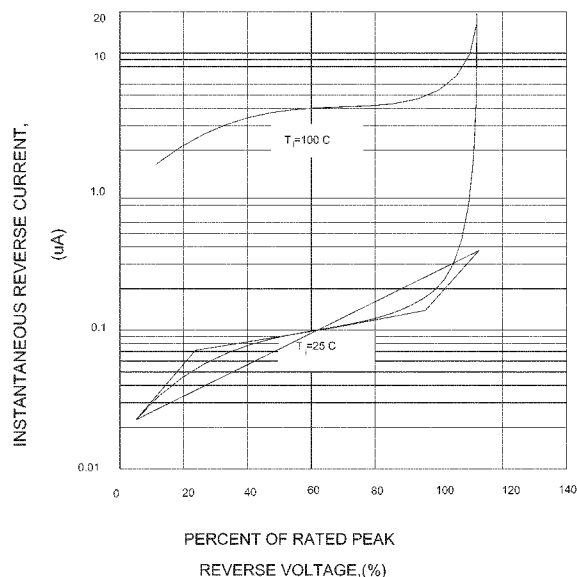


FIG.5-TYPICAL JUNCTION CAPACITANCE

