



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

 <p>RECTIFIER SPECIALISTS</p>	<p>SF11 THRU SF18</p>
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TECHNICAL SPECIFICATIONS OF SUPER FAST RECTIFIER

VOLTAGE RANGE - 50 to 600 Volts

CURRENT - 1.0 Ampere

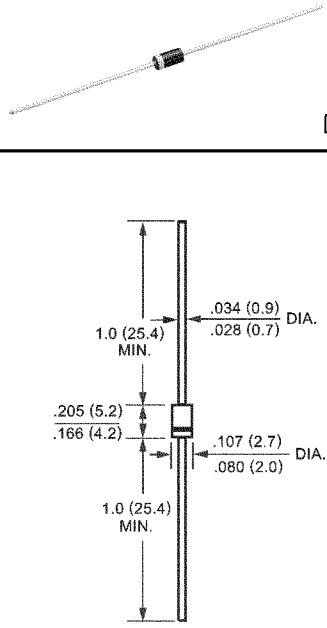
FEATURES

- * High reliability
- * Low leakage
- * Low forward voltage
- * High current capability
- * Super fast switching speed
- * High surge capability
- * Good for switching mode circuit

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Mounting position: Any
- * Weight: 0.33 gram

DO-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

	SYMBOL	SF11	SF12	SF13	SF14	SF15	SF16	SF18	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	600	Volts
Maximum RMS Volts	VRMS	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage	Vdc	50	100	150	200	300	400	600	Volts
Maximum Average Forward Current at TA = 55°C	Io	1.0							Amps
Peak Forward Surge Current IFM (surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							Amps
Maximum Forward Voltage at 1.0A DC	VF	0.95			1.25		1.7		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	5.0							uAmps
	@TA = 150°C	150							
Maximum Reverse Recovery Time (Note 1)	trr	35							nSec
Typical Junction Capacitance (Note 2)	CJ	15			10				pF
Operating and Storage Temperature Range	TJ, TStg	-65 to + 150							°C

NOTES : 1. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.



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RATING AND CHARACTERISTIC CURVES (SF11 THRU SF18)

FIG. 1 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

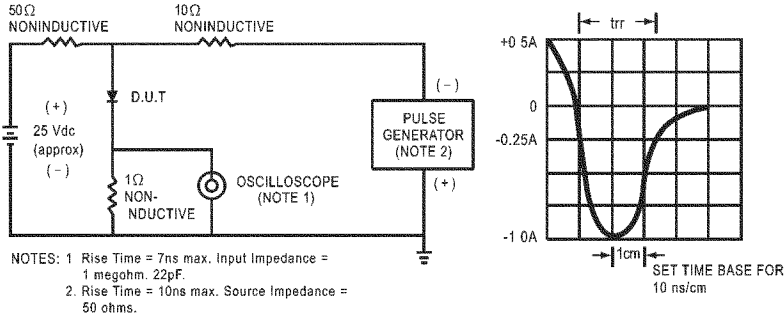


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

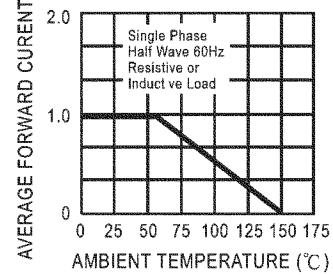


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

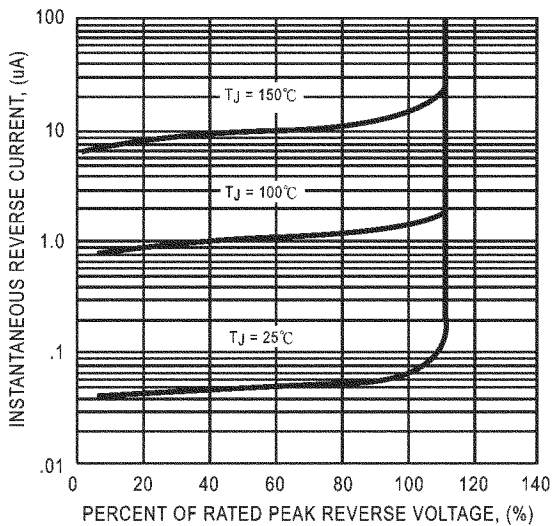


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

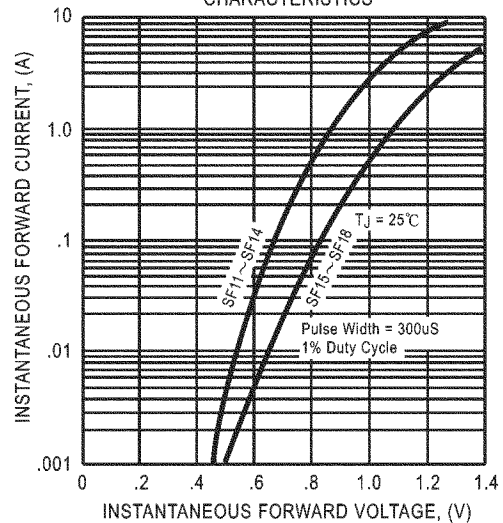


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

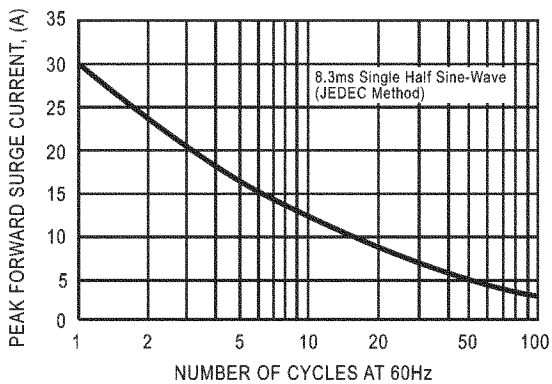


FIG. 6 - TYPICAL JUNCTION CAPACITANCE

