DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU

SF51

SF56

TECHNICAL SPECIFICATIONS OF SUPER FAST RECTIFIER

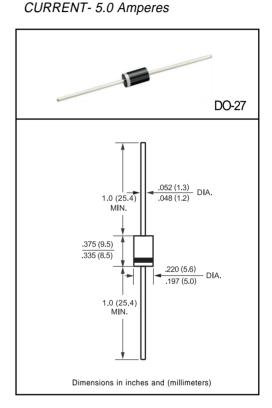
VOLTAGE RANGE - 50 to 400 Volts

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: 1.18 grams



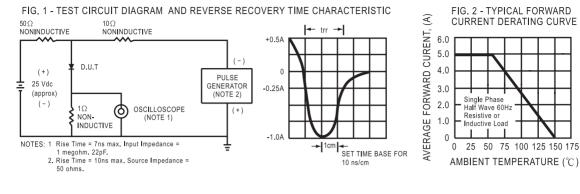
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.

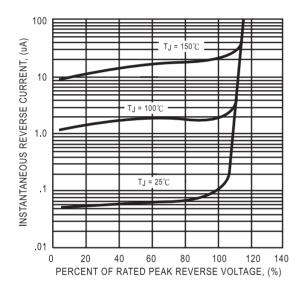
		SYMBOL	SF51	SF52	SF53	SF54	SF55	SF56	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	150	200	300	400	Volts
Maximum RMS Volts		Vrms	35	70	105	140	210	280	Volts
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	Volts
Maximum Average Forward Current at TA = 55° C		lo	5.0						Amps
Peak Forward Surge Current IFM (surge):8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150					Amps	
Maximum DC Reverse Current	@TA = 25°C		5.0					uAmps	
at Rated DC Blocking Voltage	@TA =125°C	IR	IR		150				uAmps
Maximum Forward Voltage at 5.0A DC		VF	0.95 1.25			25	Volts		
Maximum Reverse Recovery Time (Note 1)		trr	35					nSec	
Typical Junction Capacitance (Note 2)		CJ	50 30			0	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.









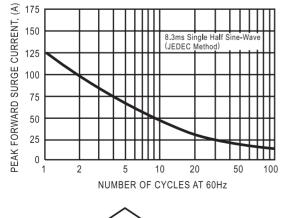


FIG. 4 - TYPICAL INSTANTANEOUS

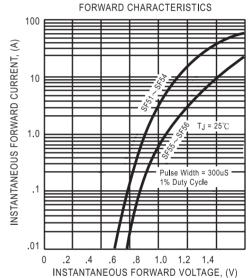
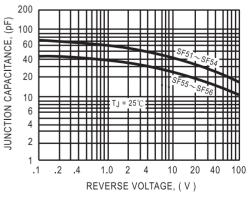


FIG. 6 - TYPICAL JUNCTION CAPACITANCE



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