# DC COMPONENTS CO., LTD.

## **RECTIFIER SPECIALISTS**

THRU

**SF11** 

SF18

### TECHNICAL SPECIFICATIONS OF SUPER FAST RECTIFIER

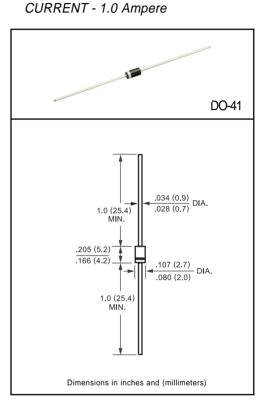
VOLTAGE RANGE - 50 to 600 Volts

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: 0.33 gram



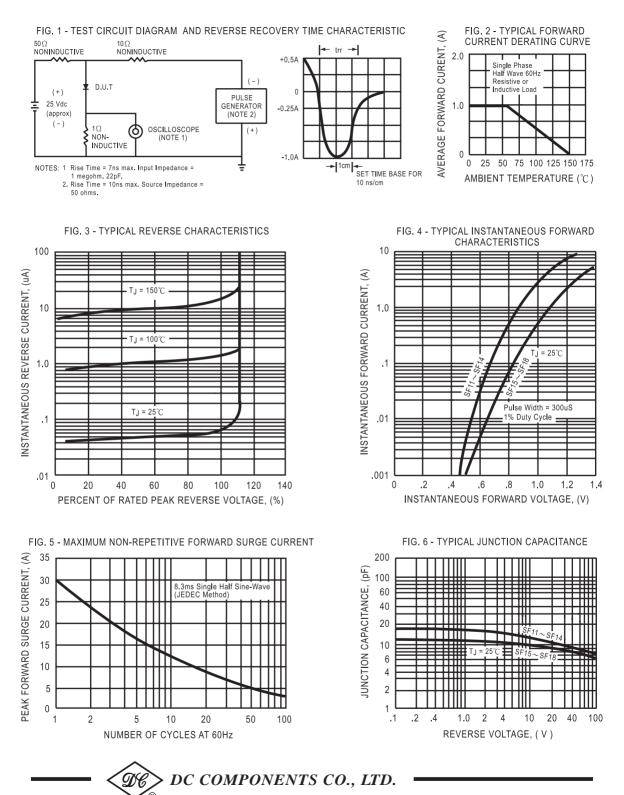
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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		lo	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.			1.7	Volts		
Maximum DC Reverse Current	@TA = 25°C	la	IR 5.0							
at Rated DC Blocking Voltage	@TA =150°C	IR	150							uAmps
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							٥C

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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