SF11 thru SF18

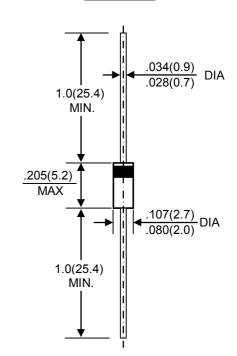
REVERSE VOLTAGE - 50 to 600 Volts **SUPER FAST RECTIFIERS** FORWARD CURRENT - 1.0 Ampere DO- 41 **FEATURES**

- Super fast switching time for high efficiency
- Low forward voltage drop and high current capabiltiy
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

● Case: JEDEC DO-41 molded plastic Polarity: Color band denotes cathode ●Weight: 0.012 ounces, 0.34 grams

Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

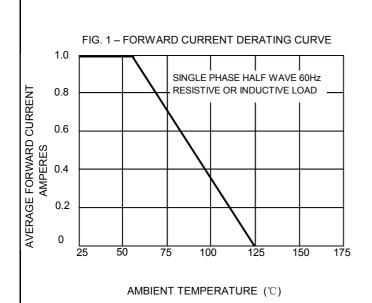
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SF11	SF12	SF13	SF14	SF15	SF16	SF18	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current @TA =55 ℃	I(AV)	1.0							Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	30							А
Peak Forward Voltage at 1.0A DC	VF	0.95 1.25					1.3	V	
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	lR	5.0 100							μА
Maximum Reverse Recovery Time(Note 1)	Trr	35			4	10	50	nS	
Typical Junction Capacitance (Note2)	CJ	30			25			pF	
Typical Thermal Resistance (Note3)	Reja	40						°C/W	
Operating Temperature Range	TJ	-55 to +125						$^{\circ}\!\mathbb{C}$	
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}\!\mathbb{C}$
	•								•

NOTES:1.Measured with IF=0.5A,IR=1A,IRR=0.25A.

- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to ambient.





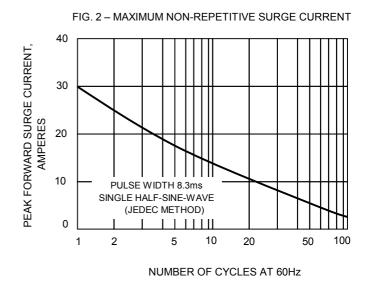


FIG.3 - TYPICAL JUNCTION CAPACITANCE

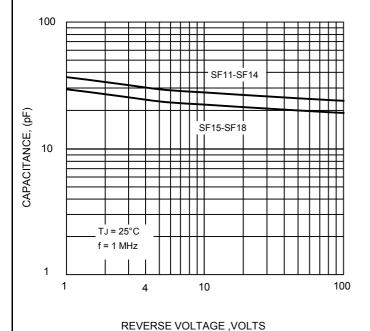
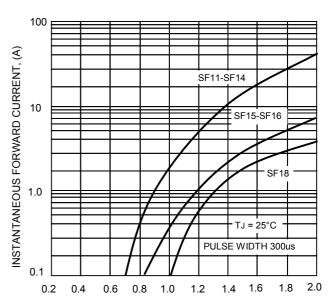


FIG.4-TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

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