

VOLTAGE RANGE: 50 --- 600 V

CURRENT: 1.0 A

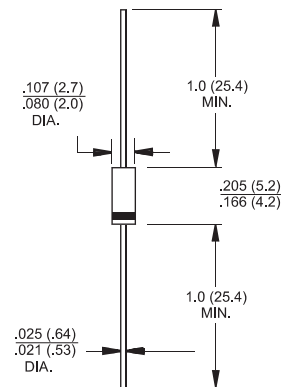
Features

- ◇ The plastic package carries underwrites laboratory flammability classification 94V-O
- ◇ High current capability
- ◇ Low reverse leakage
- ◇ Glass passivated junction
- ◇ Low forward voltage drop
- ◇ High temperature soldering guaranteed:
350°C/10 seconds, 0.375"(9.5mm) lead length, 5lbs, (2.3kg) tension

Mechanical Data

- ◇ Case: JEDEC A-405, molded plastic
- ◇ Terminals: Axial lead, solderable per ML-STD-202, Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.008 ounces, 0.23 grams
- ◇ Mounting position: Any

A-405



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 by 20%.

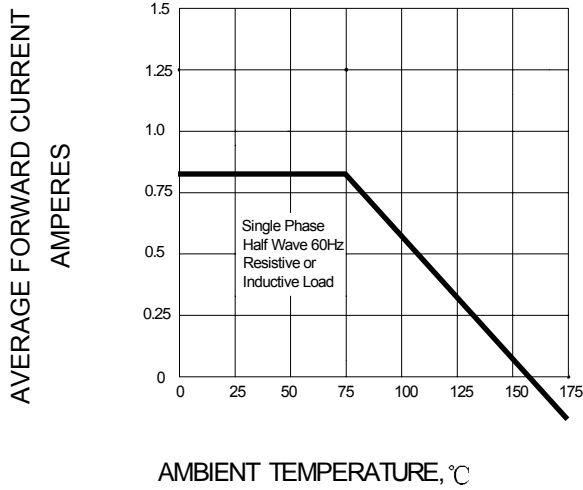
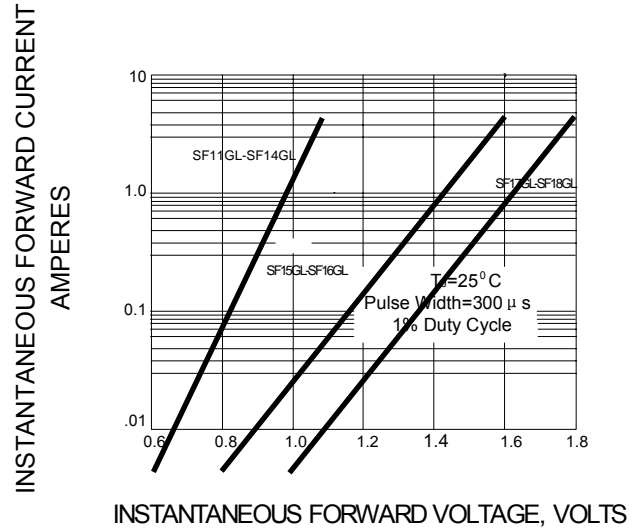
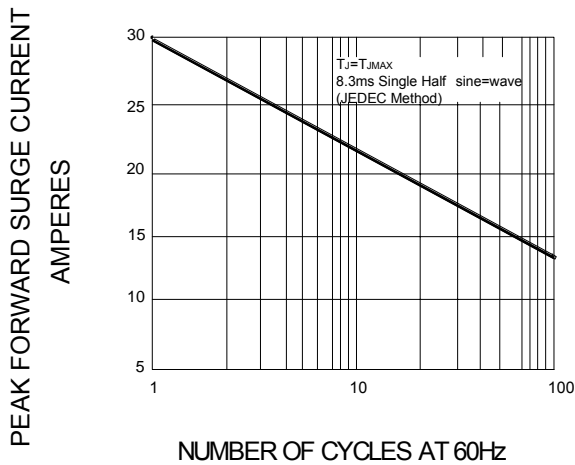
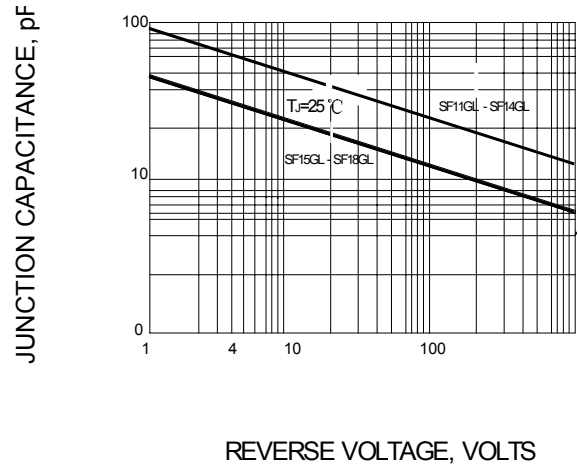
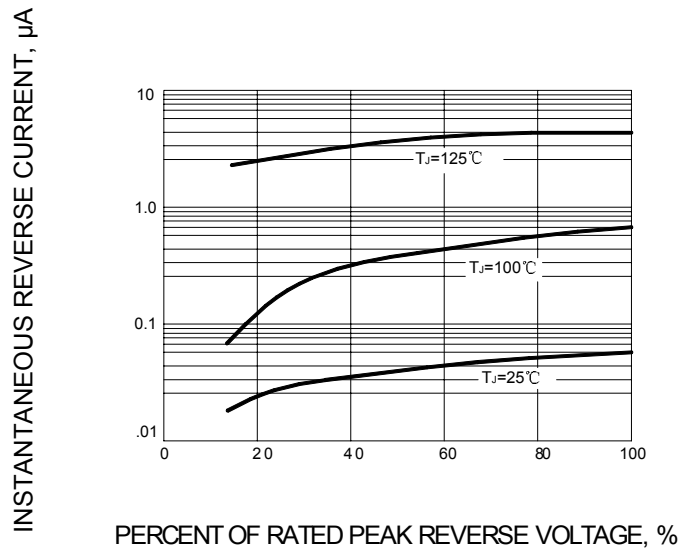
		SF 11GL	SF 12GL	SF 13GL	SF 14GL	SF 15GL	SF 16GL	SF 17GL	SF 18GL	UNITS	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	150	200	300	400	500	600	V	
Maximum RMS voltage	V_{RMS}	35	70	105	140	210	280	350	420	V	
Maximum DC blocking voltage	V_{DC}	50	100	150	200	300	400	500	600	V	
Maximum average forward rectified current 9.5mm lead length, @ $T_A=75^\circ\text{C}$	$I_{F(AV)}$	1.0								A	
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ\text{C}$	I_{FSM}	30.0								A	
Maximum instantaneous forward voltage @ 1.0 A	V_F	0.95					1.3			1.7	V
Maximum reverse recovery time (Note1)	t_{rr}					35					ns
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=100^\circ\text{C}$	I_R					5.0					μA
Typical junction capacitance (Note2)	C_J	50.0								25.0	pF
Operating junction temperature range	T_J	- 50 --- + 175									°C
Storage temperature range	T_{STG}	- 50 --- + 175									°C

NOTE: 1. Measured with $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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Ratings AND Characteristic Curves

FIG.1 – FORWARD CURRENT DERATING CURVE

FIG.2 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.3 – PEAK FORWARD SURGE CURRENT

FIG.4 – TYPICAL JUNCTION CAPACITANCE

FIG.5 – TYPICAL REVERSE CHARACTERISTICS


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