

GLASS PASSIVATED RECTIFIERS

VOLTAGE RANGE: 50 --- 600 V
CURRENT: 1.0 A

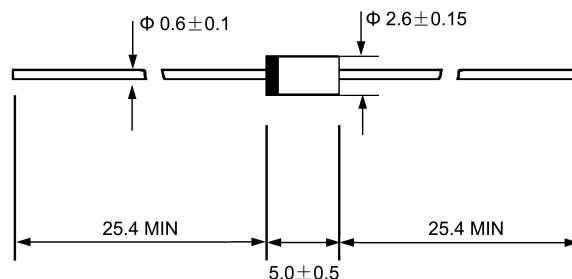
FEATURES

- ◇ 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
MIL-STD-202, Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.008 ounces, 0.23 grams
- ◇ Mounting position: Any

A-405



Dimensions in 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°C	I _{F(AV)}	1.0								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125°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°C at rated DC blocking voltage @T _A =100°C	I _R	5.0 100.0								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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $t_{rr} = 0.25\text{A}$.

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

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FIG.1 --FORWARD CURRENT DERATING CURVE

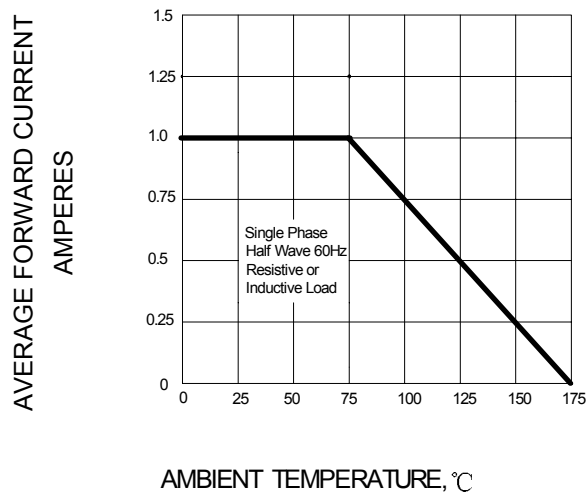


FIG.2 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

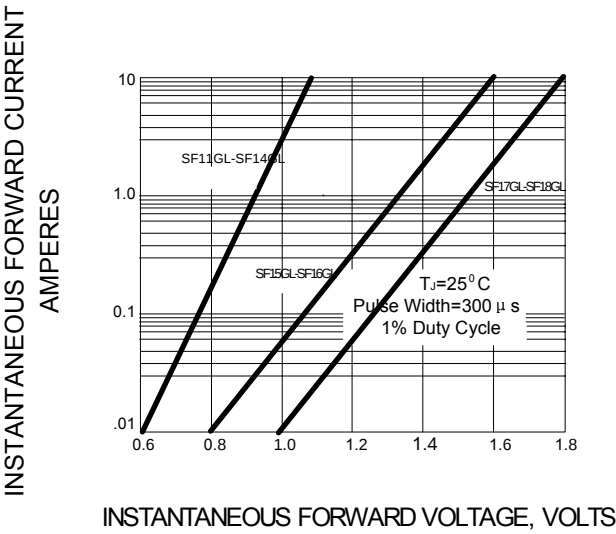


FIG.3 -- PEAK FORWARD SURGE CURRENT

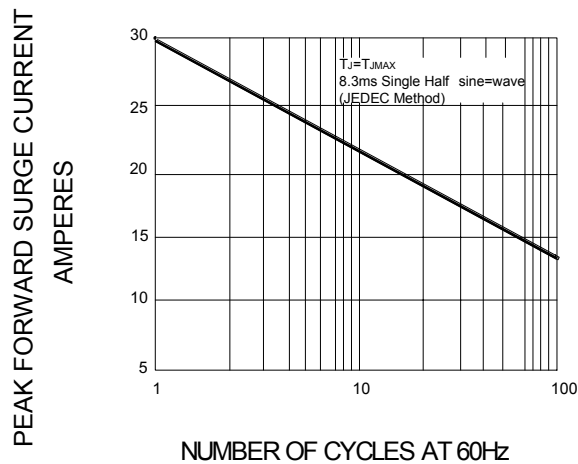


FIG.4 -- TYPICAL JUNCTION CAPACITANCE

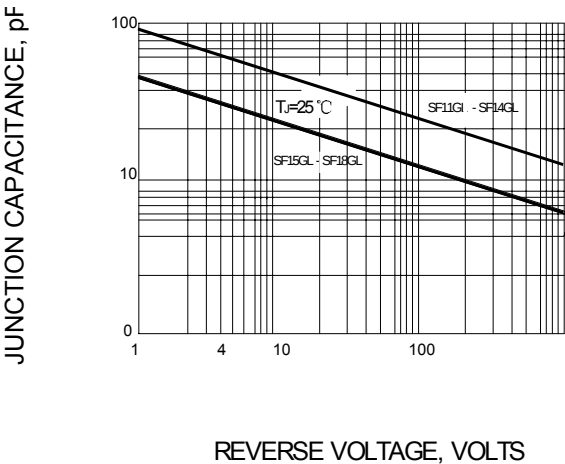


FIG.5 -- TYPICAL REVERSE CHARACTERISTICS

