



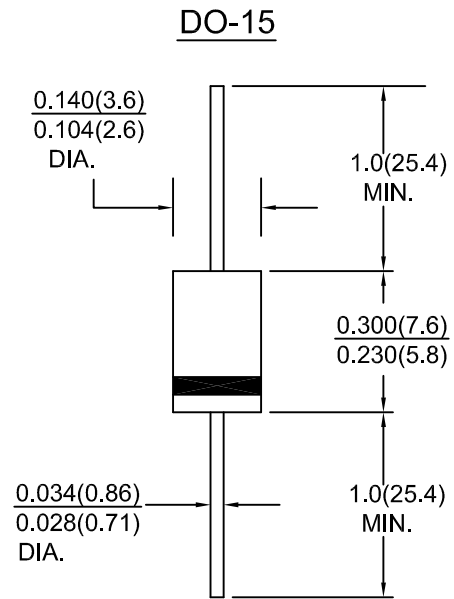
**SUPER FAST GLASS PASSIVATED RECTIFIERS**

**FEATURES:**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

**MECHANICAL DATA**

Case : Molded plastic  
 Epoxy: UL 94V-0 rate flame retardant  
 Lead : Axial leads, solderable per MIL-STD-202,  
 Method 208 guaranteed  
 Polarity : Color band on body denotes cathode end  
 Mounting Position : Any  
 Weight : 0.40 grams



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25 °C ambient temp. unless otherwise specified.  
 Single phase, half sine wave, 60 Hz, resistive or inductive load.  
 For capacitive load, derate current by 20 %.

Characteristic	Symbol	SF 21G	SF 22G	SF 23G	SF 24G	SF 25G	SF 26G	SF 27G	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	150	200	300	400	600	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	Volts
Maximum average forward rectified current .375"(9.5mm) lead length at Ta=55°C	I <sub>(AV)</sub>	2.0							Amps
Peak forward surge current ,8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I <sub>FSM</sub>	50							Amps
Maximum instantaneous forward voltage at 2.0 A	V <sub>F</sub>	0.95			1.25		1.70		Volts
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>	Ta=25°C 100			Ta=125°C 5.0			μ A	
Maximum reverse recovery time (note 1)	t <sub>rr</sub>	35							nS
Typical junction capacitance (note 2)	C <sub>j</sub>	60							pF
Operating and storage temperature range	T <sub>j</sub> , T <sub>stg</sub>	-65 to +150							°C

Notes : 1. Reverse recovery test condition : I<sub>F</sub>=0.5A ; I<sub>R</sub>=1.0A ; I<sub>RR</sub>=0.25A  
 2. Measured 1MHz and applied reverse voltage of 4.0V DC



RATINGS AND CHARACTERISTIC CURVES

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

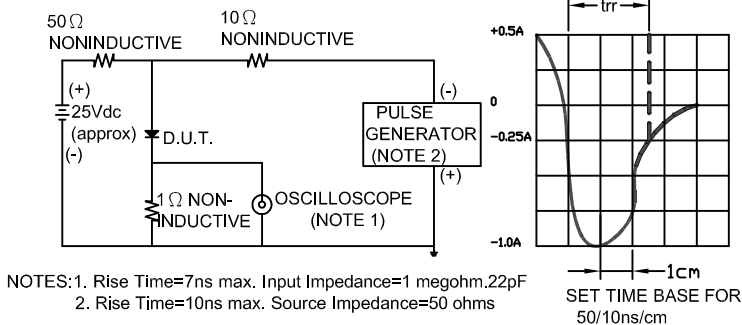


FIG.2 - TYPICAL FORWARD CURRENT DERATING CURVE

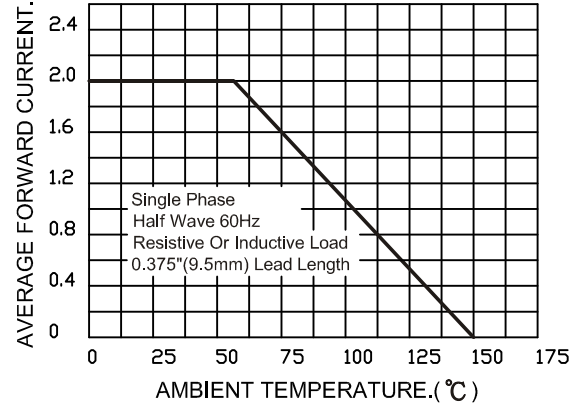


FIG.3-TYPICAL FORWARD CHARACTERISTICS

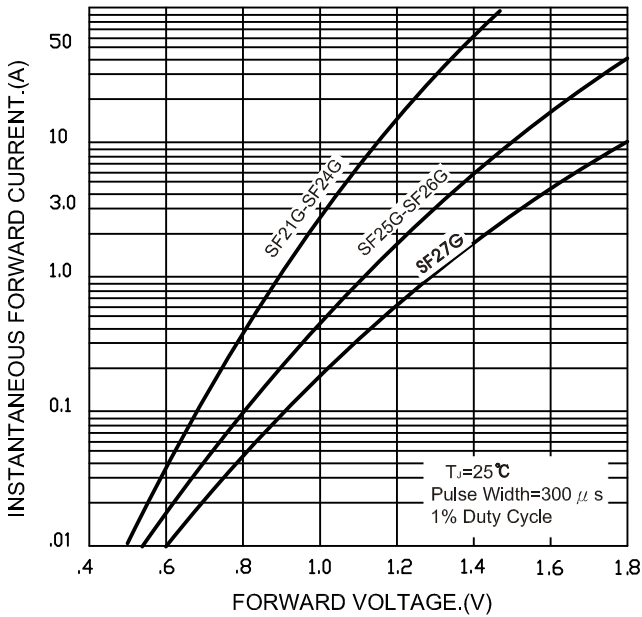


FIG.4-TYPICAL REVERSE CHARACTERISTICS

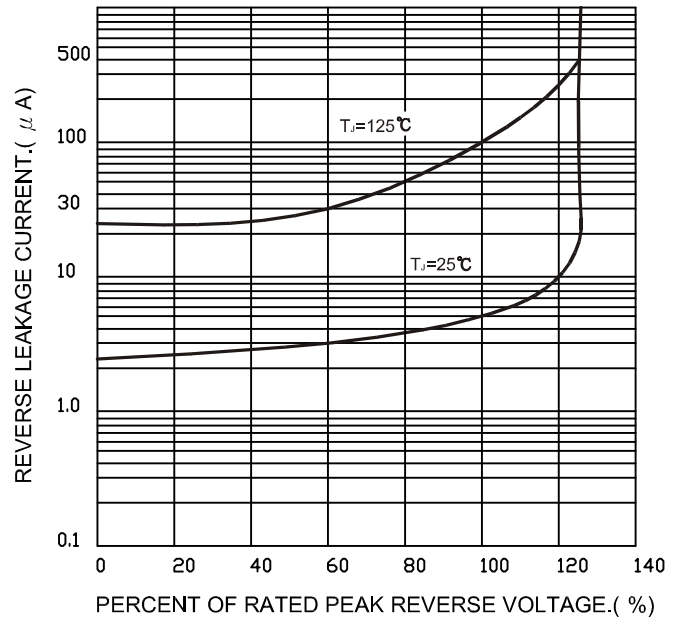


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

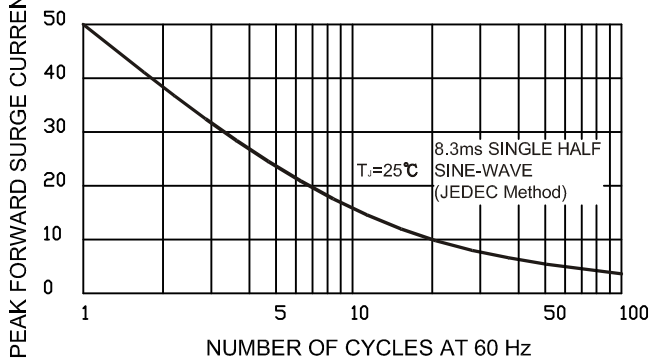
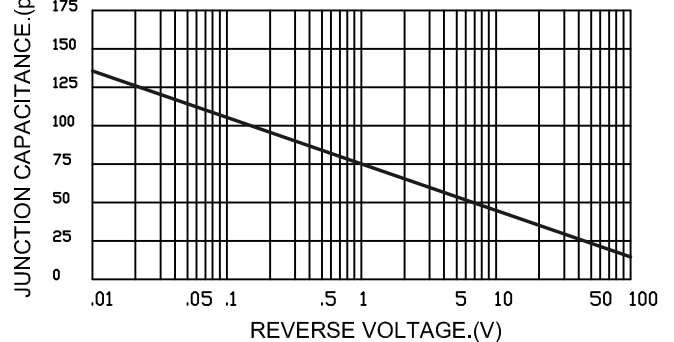


FIG.6-TYPICAL JUNCTION CAPACITANCE





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