

**SUPER FAST GLASS PASSIVATED BRECTIFIERS**

REVERSE VOLTAGE - **50 to 600** Volts  
 FORWARD CURRENT - **2.0** Amperes

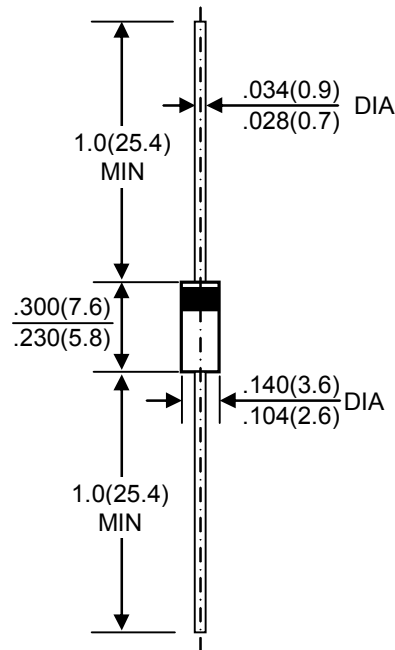
### FEATURES

- 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-15 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.0415ounces ,0.4grams
- Mounting position: Any

### DO-15



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	SF21G	SF22G	SF23G	SF24G	SF25G	SF26G	SF28G	UNIT	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	600	V	
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	V	
Maximum Average Forward Rectified Current @T <sub>A</sub> =55 °C	I <sub>(AV)</sub>	2.0							A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I <sub>FSM</sub>	75							A	
Peak Forward Voltage at 2.0A DC	V <sub>F</sub>	0.95				1.25		1.3	V	
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =100°C	I <sub>R</sub>	5.0							100	μA
Maximum Reverse Recovery Time(Note 1)	T <sub>rr</sub>	35				40		50	nS	
Typical Junction Capacitance (Note2)	C <sub>J</sub>	40				30			pF	
Typical Thermal Resistance (Note3)	R <sub>θJA</sub>	25							°C/W	
Operating Temperature Range	T <sub>J</sub>	-55 to +125							°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C	

NOTES:1.Measured with I<sub>F</sub>=0.5A,I<sub>R</sub>=1A,I<sub>RR</sub>=0.25A.

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

3.Thermal resistance junction to ambient.

FIG. 1 – FORWARD CURRENT DERATING CURVE

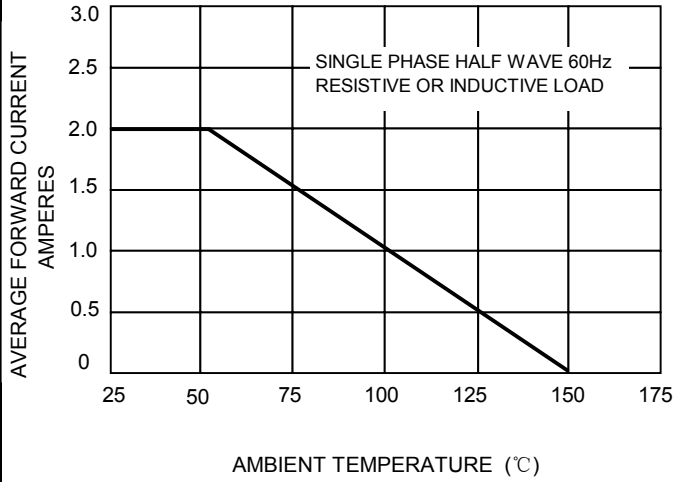


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

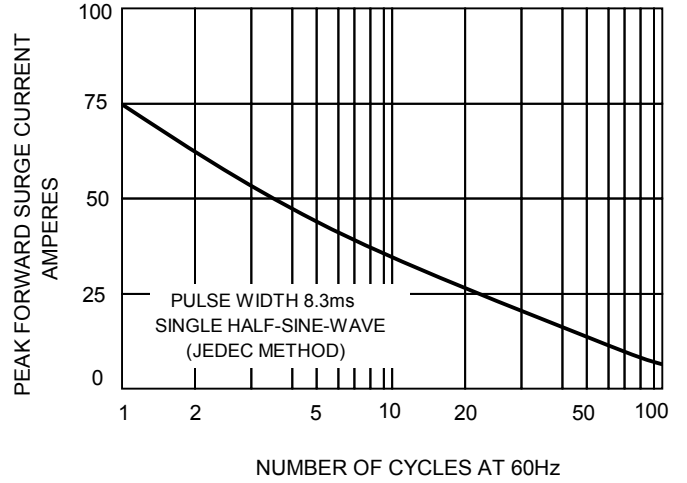


FIG.3 – TYPICAL JUNCTION CAPACITANCE

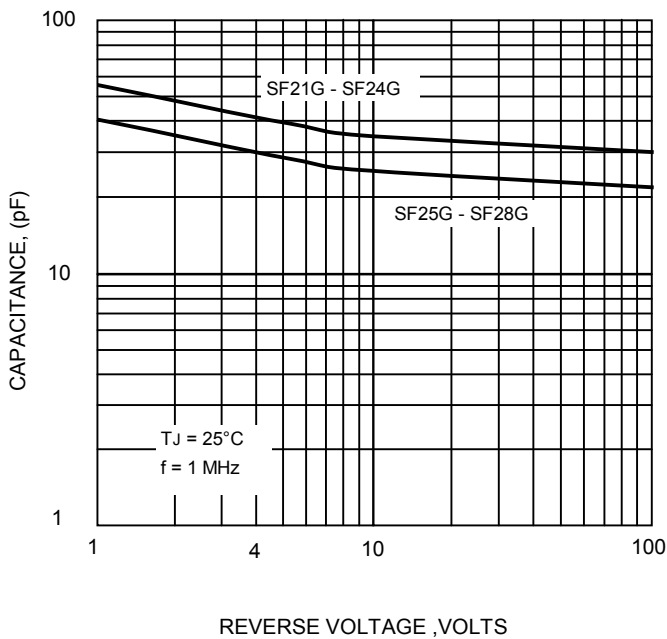


FIG.4-TYPICAL FORWARD CHARACTERISTICS

