

**Super Fast Glass Passivated Rectifiers**
**Reverse Voltage - 600 Volts**  
**Forward Current - 2.0 Amperes**
**Features**

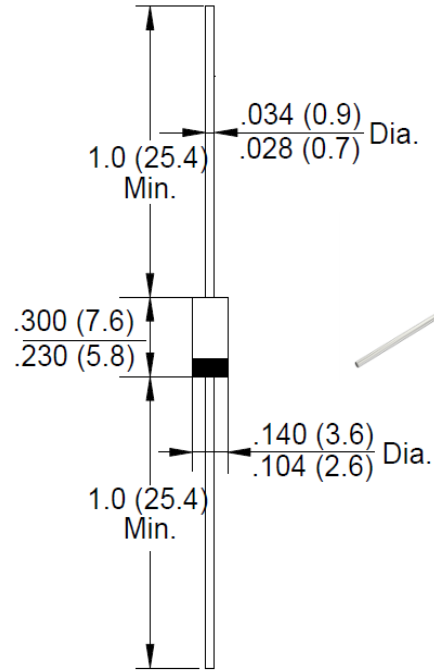
- Fast switching for high efficiency
- Low cost
- Low reverse leakage current
- High current capability
- Low forward voltage drop
- Meet UL flammability classification 94V-0
- AEC-Q101 qualified

**Mechanical Data**

- Case: JEDEC DO-15 Molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any

**Applications**

- For use in SMPS, high frequency inverters, PWM and polarity protection applications

**DO-15**

**RoHS**  
**COMPLIANT**

Package Outline Dimensions in Inches (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	SF28G	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	600	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =55°C	I(AV)	2.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	50	A
Peak Forward Voltage at 2.0A DC (Note1)	V <sub>F</sub>	1.7	V
Maximum DC Reverse Current @T <sub>J</sub> =25°C	I <sub>R</sub>	5.0	μA
at Rated DC Blocking Voltage @T <sub>J</sub> =100°C		100	
Maximum Reverse Recovery Time (Note 2)	T <sub>rr</sub>	35	nS
Typical Junction Capacitance (Note3)	C <sub>J</sub>	30	pF
Typical Thermal Resistance Junction to Ambient	R <sub>θJA</sub>	25	°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

Notes: 1. 300uS pulse width, 2%duty cycle.

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

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

4. The typical data above is for reference only

Fig. 1 - Forward Current Derating Curve

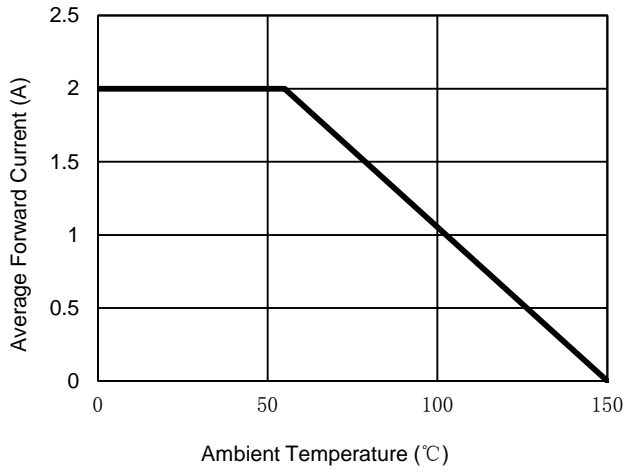


Fig. 2 - Maximum Non-Repetitive Surge Current

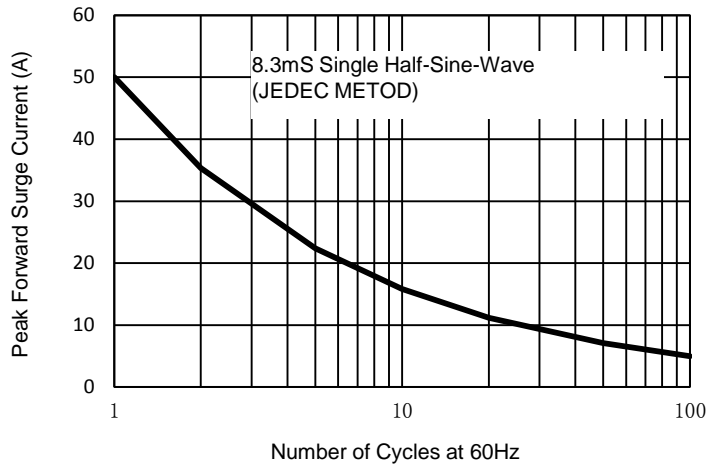


Fig. 3 - Typical Junction Capacitance

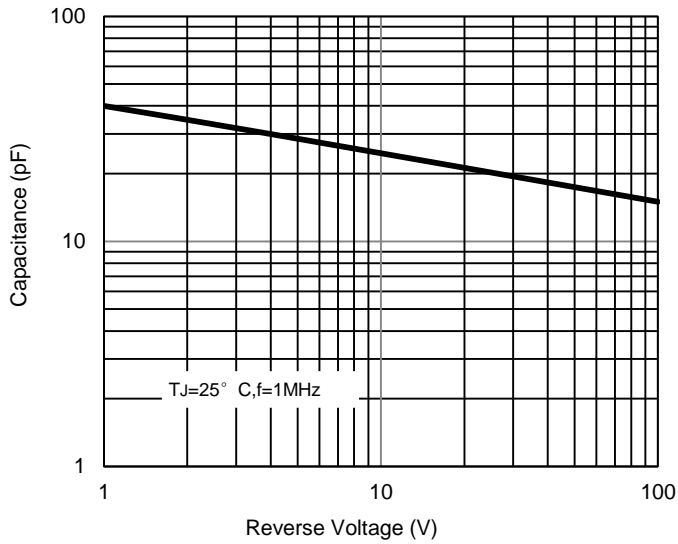
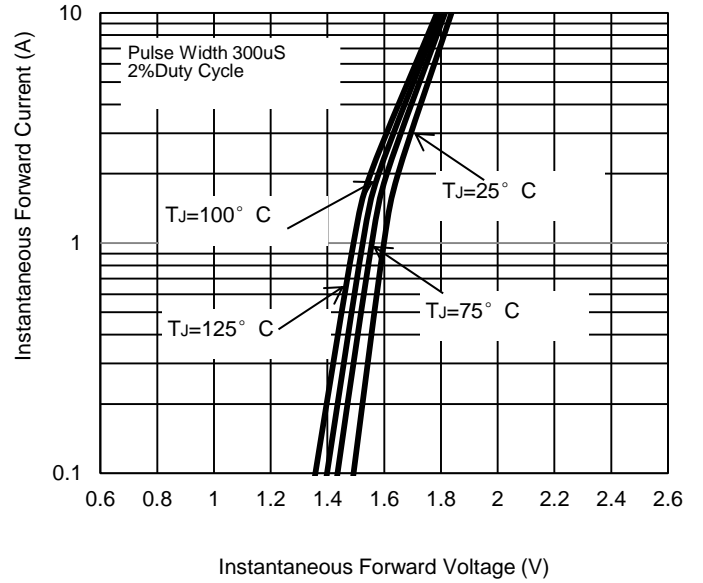


Fig. 6 - Typical Forward Characteristics





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