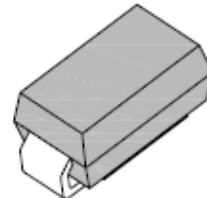


**1.0A Sintered Glass Passivated Super Fast Rectifier**

**Features**

- Sintered glass passivated (SGP) rectifier chip
- Glass passivated cavity-free junction
- Ideal for surface mount automotive applications
- Built-in strain relief
- Easy pick and place
- High temperature soldering guaranteed:260°C/10 seconds, at terminals
- RoHS Compliance



SMA



**Mechanical Data**

<b>Case:</b>	JEDEC DO-214AC(SMA) molded plastic over passivated chip
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Solder plated, solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Color band denotes cathode end
<b>Weight:</b>	0.002 ounces, 0.064 gram

**Maximum Ratings and Electrical Characteristics** ( $T_A=25^\circ\text{C}$  unless noted otherwise)

Symbol	Description	EGF1A	EGF1B	EGF1D	EGF1G	EGF1J	EGF1K	Unit	Conditions
<b>VRRM</b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	V	
<b>VRMS</b>	Maximum RMS Voltage	35	70	140	280	420	560	V	
<b>VDC</b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	V	
<b>IF(AV)</b>	Maximum Average Forward Rectified Current	1.0						A	TL=110° C
<b>IFSM</b>	Peak Forward Surge Current	30				25		A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

# 1.0A Sintered Glass Passivated Super Fast Rectifier

## EGF1A - EGF1K

Symbol	Description	EGF1A	EGF1B	EGF1D	EGF1G	EGF1J	EGF1K	Unit	Conditions
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage	0.95			1.25	1.70	2.20	V	I <sub>F</sub> =1.0 A
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0						μA	TA=25° C
		50							TA=125° C
<b>T<sub>rr</sub></b>	Maximum Reverse Recovery Time	35						nS	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A
<b>C<sub>J</sub></b>	Typical Junction Capacitance	10						pF	V <sub>R</sub> =4V, f=1MHz
<b>R<sub>thJA</sub></b>	Typical Thermal Resistance	34						°C / W	Note
<b>T<sub>J</sub>, T<sub>STG</sub></b>	Operating junction and Storage Temperature Range	-55 to +175						°C	

**Note:** Thermal resistance from junction to ambient P.C.B mounted on 0.2x0.2" (5.0x5.0mm) copper pad areas.

### Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

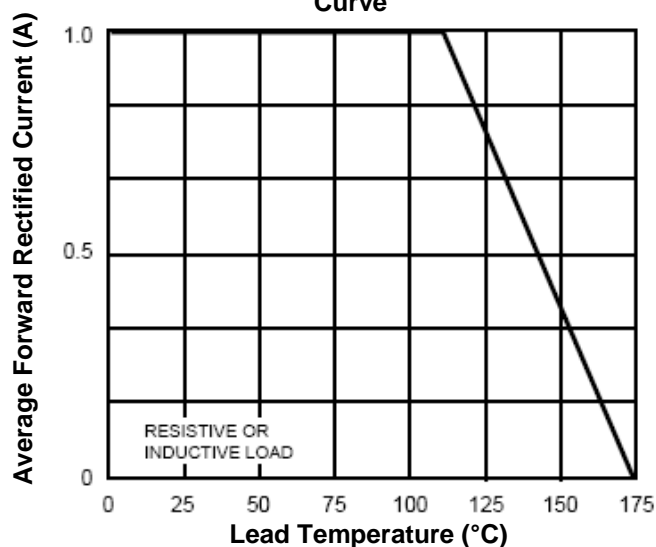
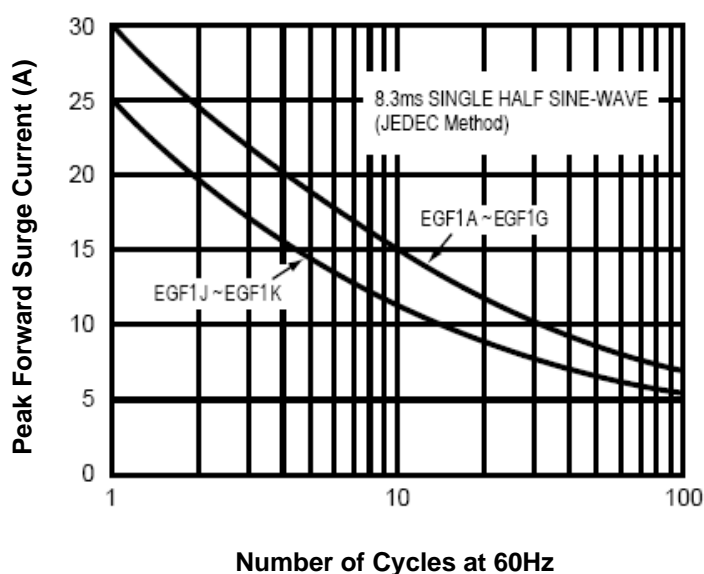


Fig.2-Max. Non-Repetitive Forward Surge Current



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## EGF1A - EGF1K

Fig.3- Typical Instantaneous Forward Characteristics

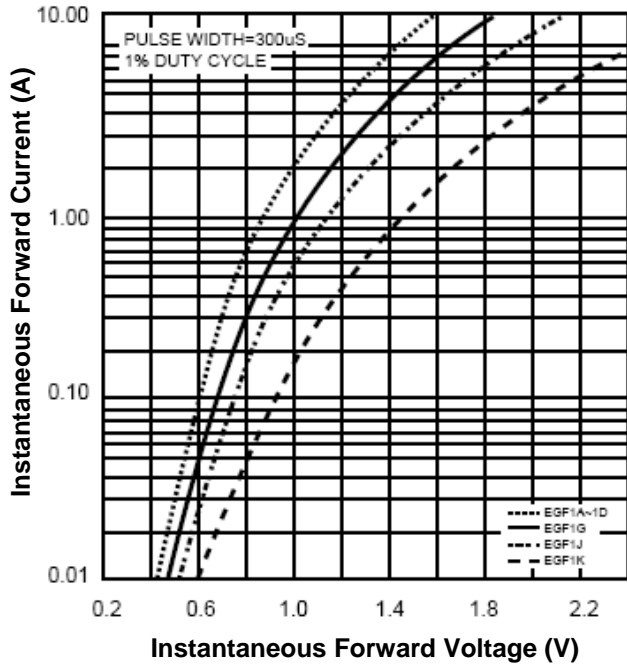


Fig.4-Typical Reverse Characteristics

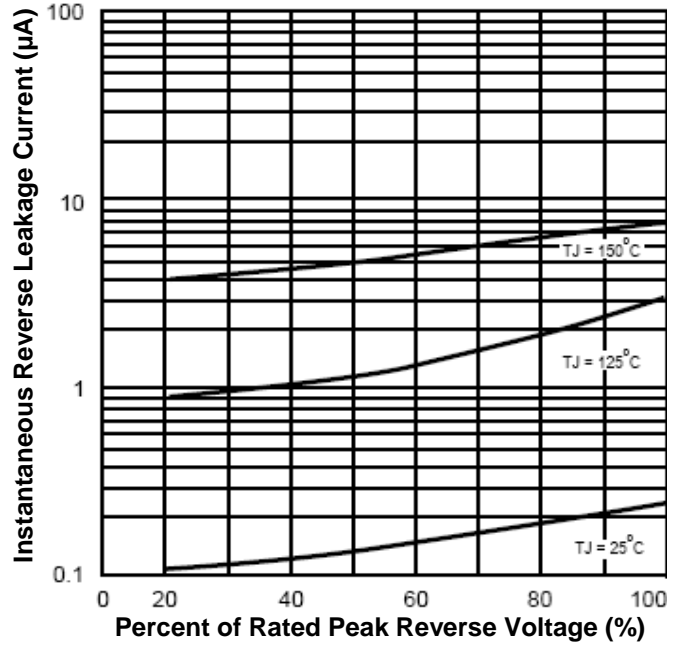
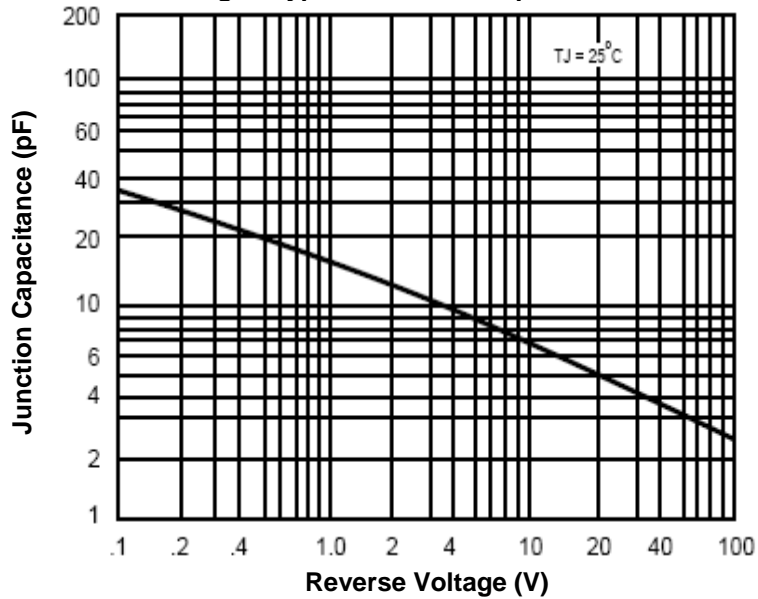


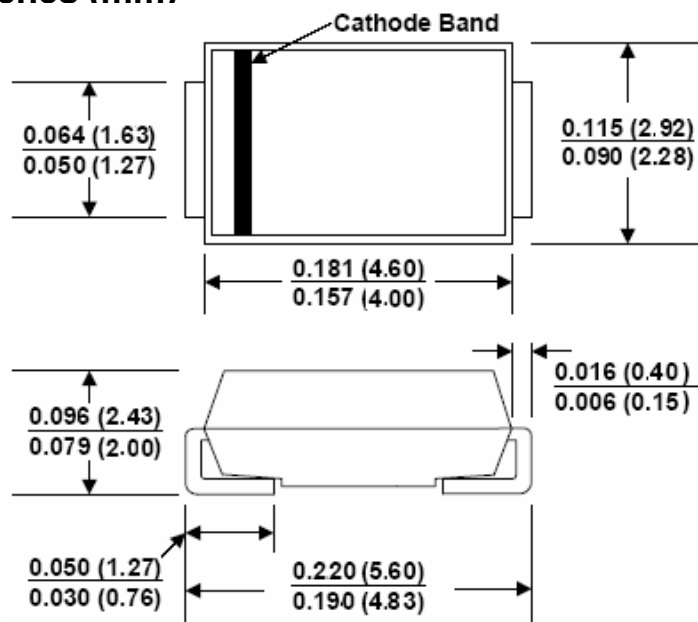
Fig.5- Typical Junction Capacitance



# 1.0A Sintered Glass Passivated Super Fast Rectifier

## EGF1A - EGF1K

### Dimensions in inches (mm)



SMA

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