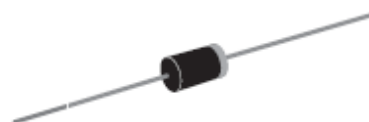


## 2.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier (SGP®)

### Features

- Sintered glass passivated (SGP®) rectifier chip
- Ultra fast reverse recovery time
- Low forward voltage, high current capability
- Low leakage current, high surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds  
.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- 175° C operation junction temperature
- RoHS Compliance



DO-15



### Mechanical Data

<b>Case:</b>	JEDEC DO-15, molded plastic body
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Plated axial leads, solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Color band denotes cathode end
<b>Weight:</b>	0.015 ounces, 0.4 grams

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

Symbol	Description	MUR230	MUR240	MUR260	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	300	400	600	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	210	280	420	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	300	400	600	V	
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Rectified Current	2.0			A	T <sub>A</sub> =60° C
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	35			A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage	1.35			V	I <sub>F</sub> =2.0A, T <sub>j</sub> =25° C

# 2.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier (SGP<sup>®</sup>)

## MUR230 - MUR260

Symbol	Description	MUR230	MUR240	MUR260	Unit	Conditions
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	5			μA	T <sub>J</sub> =25° C
		50				T <sub>J</sub> =125° C
		100				T <sub>J</sub> =150° C
<b>T<sub>rr</sub></b>	Maximum Reverse Recovery Time	50			nS	I <sub>F</sub> =0.5A, I <sub>R</sub> =1.0A, I <sub>rr</sub> =0.25A
<b>T<sub>fr</sub></b>	Maximum Forward Recovery Time	50			nS	I <sub>F</sub> =1.0A, di/dt=100A/μS, recovery to 1.0V
<b>C<sub>J</sub></b>	Typical Junction Capacitance	25			pF	V <sub>R</sub> =4V, f=1MHz
<b>R<sub>thJA</sub></b>	Typical Thermal Resistance	50			°C / W	Note
<b>T<sub>J</sub>, T<sub>STG</sub></b>	Operating Junction and Storage Temperature Range	-65 to +175			°C	

**Note:** Thermal resistance from junction to ambient lead at 0.375" (9.5mm) lead length, P.C.B mounted with 1.5 x 1.5" (38 x 38mm) copper pads as shown in Fig-1.

### Typical Characteristics Curves

Fig.1-Forward Current Derating Curve

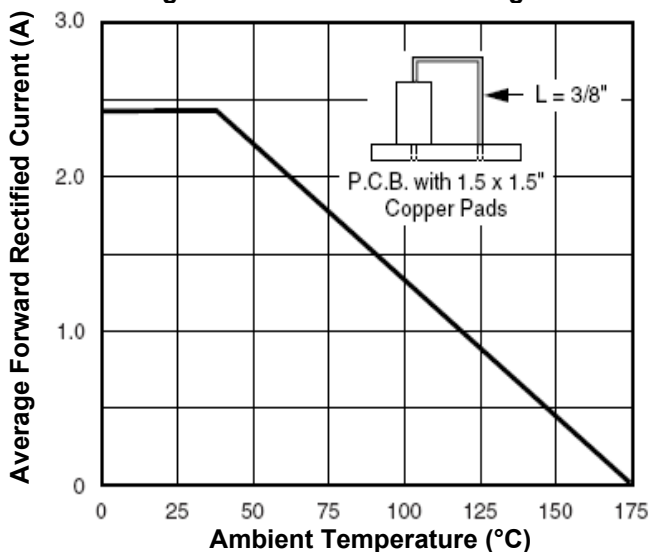
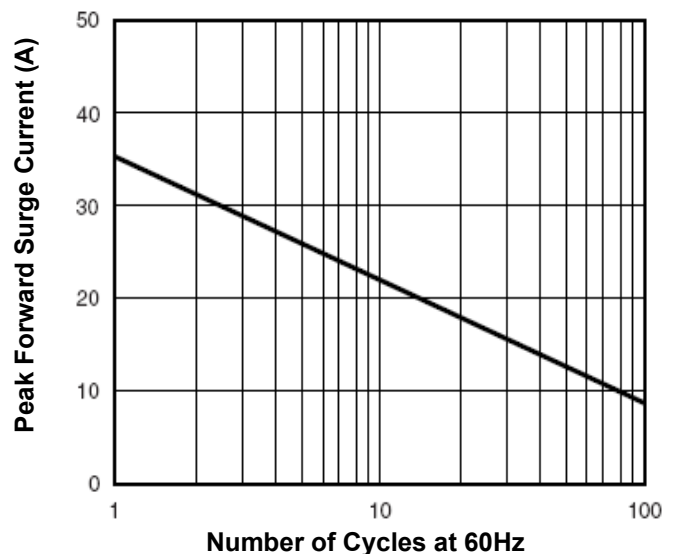


Fig.2-Max. Non-Repetitive Peak Forward Surge Current



# 2.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier (SGP<sup>®</sup>)

## MUR230 - MUR260

Fig.3- Typical Instantaneous Forward Characteristics

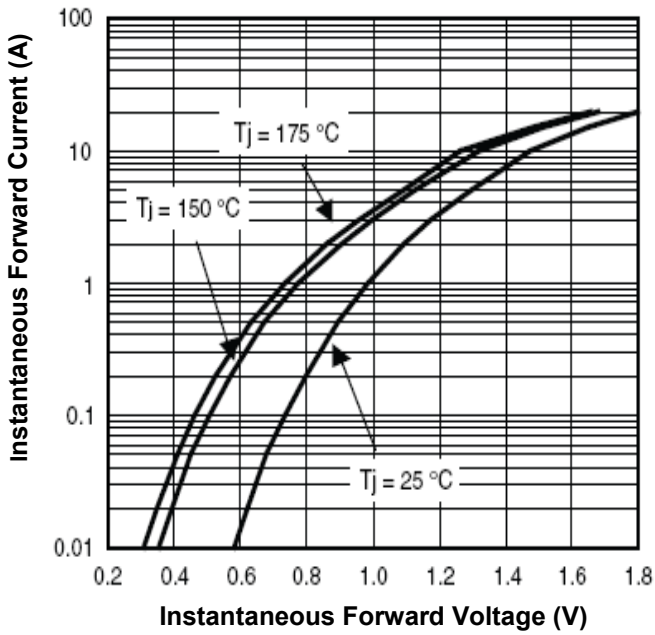


Fig.4-Typical Reverse Characteristics

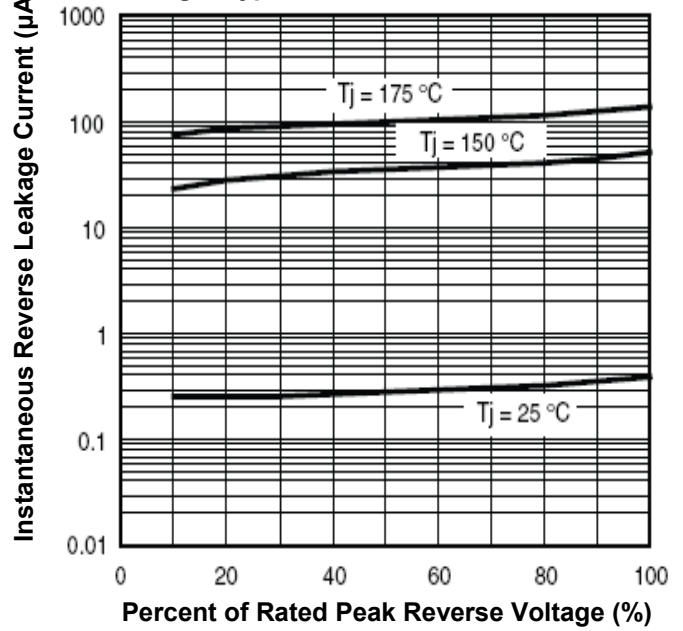
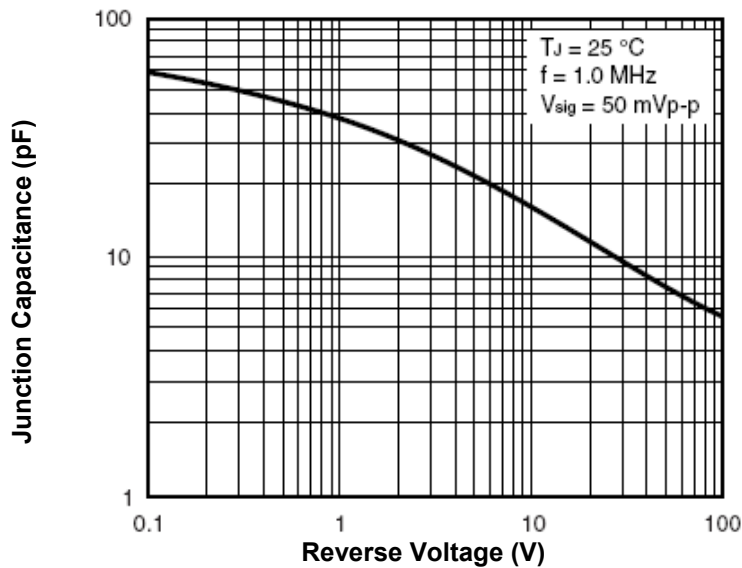


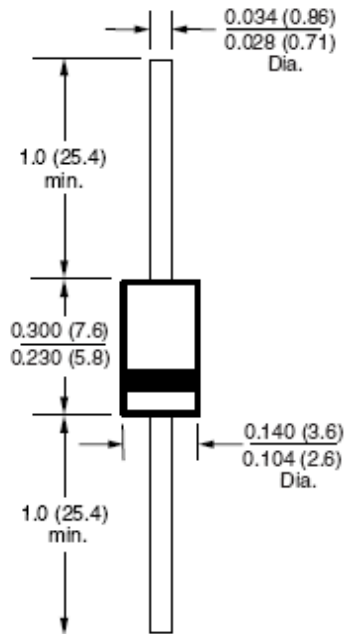
Fig.5- Typical Junction Capacitance



## 2.0A Sintered Glass Passivated Ultra Fast Recovery Rectifier (SGP®)

MUR230 - MUR260

### Dimensions in inches (mm)



DO-15

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