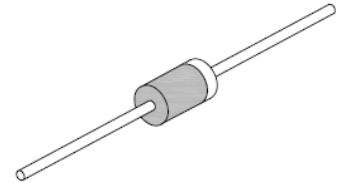


## 6.0A Sintered Glass Passivated Super Fast Recovery Rectifier

### Features

- Sintered glass passivated (SGP) rectifier chip
- 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
- RoHS Compliance



DO-201AD



### Mechanical Data

<b>Case:</b>	JEDEC DO-201AD 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>	0.04ounces, 1.12 grams

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

Symbol	Description	EGP60A	EGP60B	EGP60D	EGP60G	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	V	
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Rectified Current	6.0				A	0.375" (9.5mm) lead length(Fig.1)
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	200				A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)

# 6.0A Sintered Glass Passivated Super Fast Recovery Rectifier

## EGP60A - EGP60G

Symbol	Description	EGP60A	EGP60B	EGP60D	EGP60G	Unit	Conditions
$V_F$	Maximum Instantaneous Forward Voltage	0.95	0.95	0.95	1.25	V	$I_F=6.0A$
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0				$\mu A$	$T_A=25^\circ C$
		120					$T_A=125^\circ C$
$T_{rr}$	Typical Reverse Recovery Time	35				nS	$I_F=0.5A, I_R=1A, I_{rr}=0.25A$
$C_J$	Typical Junction Capacitance	35				pF	$V_R=4V, f=1MHz$
$T_J$	Operating Temperature range	-55 to +175				$^\circ C$	
$T_{STG}$	Storage Temperature Range	-55 to +175					

**Note:** Thermal resistance from junction to ambient at 0.375" (9.5mm) lead lengths, P.C.B mounted.

### Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

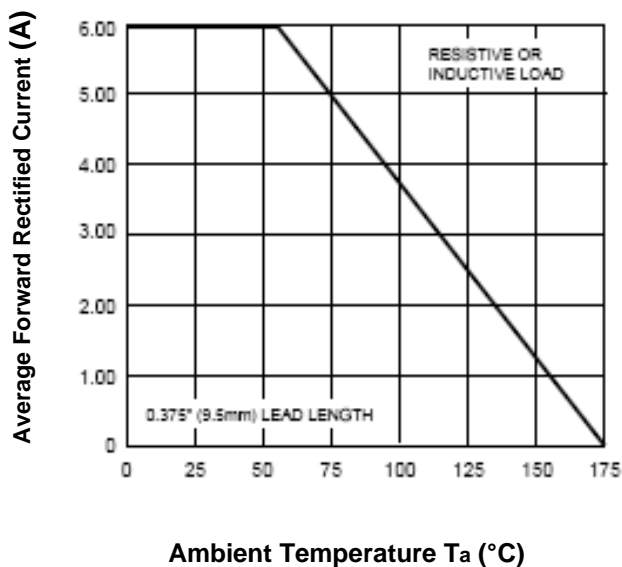
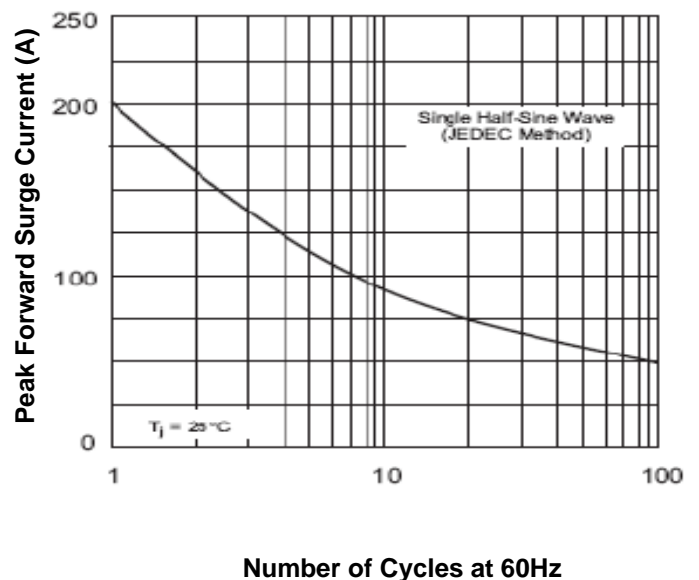


Fig.2-Max. Non-Repetitive Forward Surge Current



# 6.0A Sintered Glass Passivated Super Fast Recovery Rectifier

## EGP60A - EGP60G

Fig.3- Typical Forward Characteristics

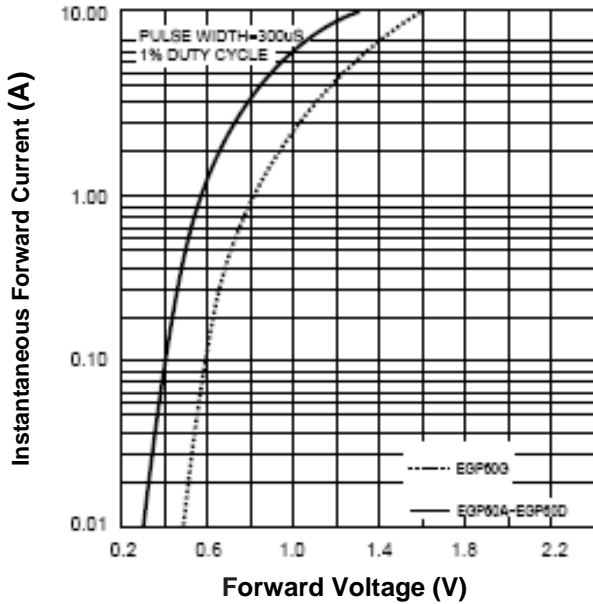


Fig.4-Typical Reverse Characteristics

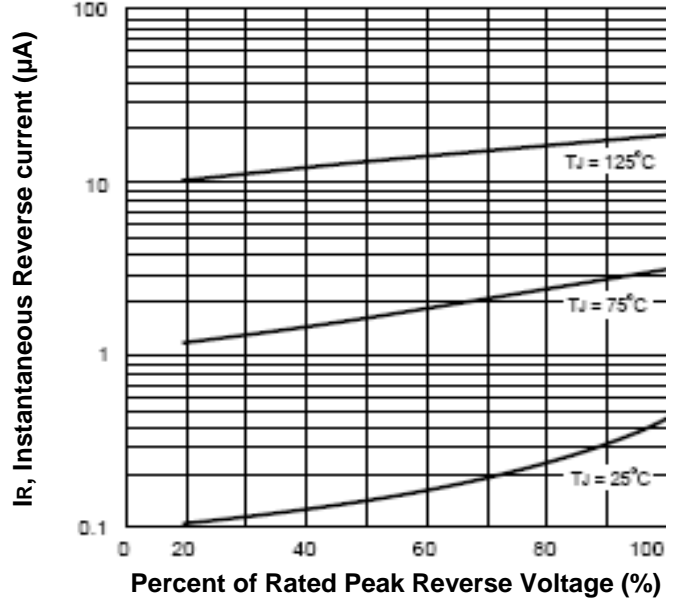
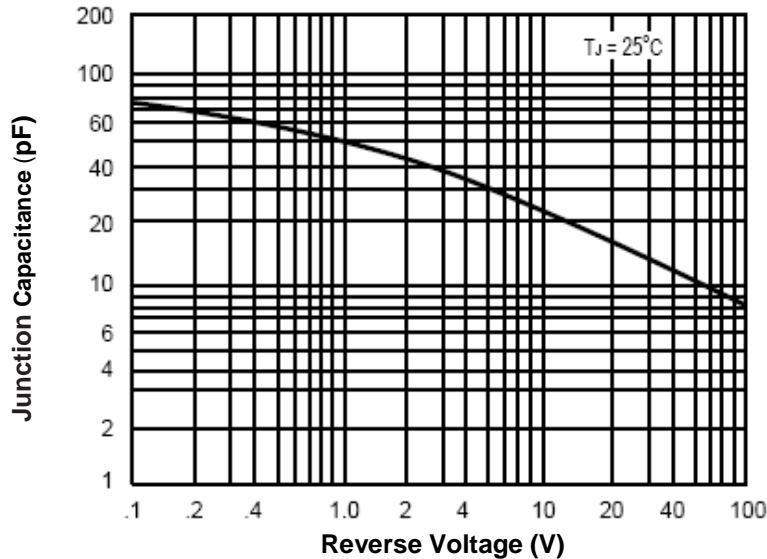


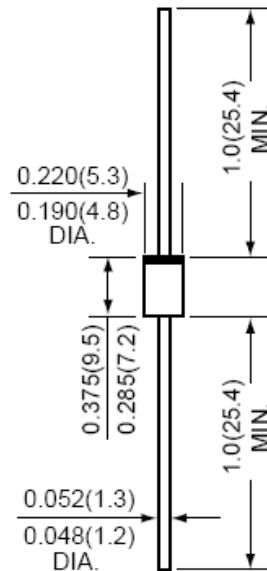
Fig.5- Typical Junction Capacitance



# 6.0A Sintered Glass Passivated Super Fast Recovery Rectifier

## EGP60A - EGP60G

### Dimensions in inches (mm)



DO-201AD

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