



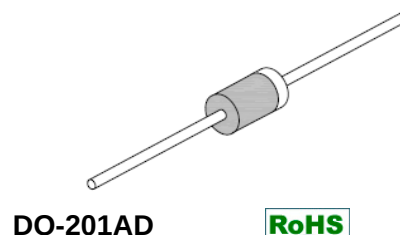
## 6.0A Sintered Glass Passivated Super Fast Recovery Rectifier

### EGP60A – EGP60G

## 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) |

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## EGP60A - EGP60G

| Symbol           | Description                                             | EGP60A      | EGP60B | EGP60D | EGP60G | Unit | Conditions                                                       |
|------------------|---------------------------------------------------------|-------------|--------|--------|--------|------|------------------------------------------------------------------|
| V <sub>F</sub>   | Maximum Instantaneous Forward Voltage                   | 0.95        | 0.95   | 0.95   | 1.25   | V    | I <sub>F</sub> =6.0A                                             |
| I <sub>R</sub>   | Maximum DC Reverse Current at Rated DC Blocking Voltage | 5.0         |        |        |        | μA   | T <sub>A</sub> =25° C                                            |
|                  |                                                         | 120         |        |        |        |      | T <sub>A</sub> =125° C                                           |
| T <sub>rr</sub>  | Typical Reverse Recovery Time                           | 35          |        |        |        | nS   | I <sub>F</sub> =0.5A, I <sub>R</sub> =1A, I <sub>rr</sub> =0.25A |
| C <sub>J</sub>   | Typical Junction Capacitance                            | 35          |        |        |        | pF   | V <sub>R</sub> =4V, f=1MHz                                       |
| T <sub>J</sub>   | Operating Temperature range                             | -55 to +175 |        |        |        | ° C  |                                                                  |
| T <sub>STG</sub> | 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

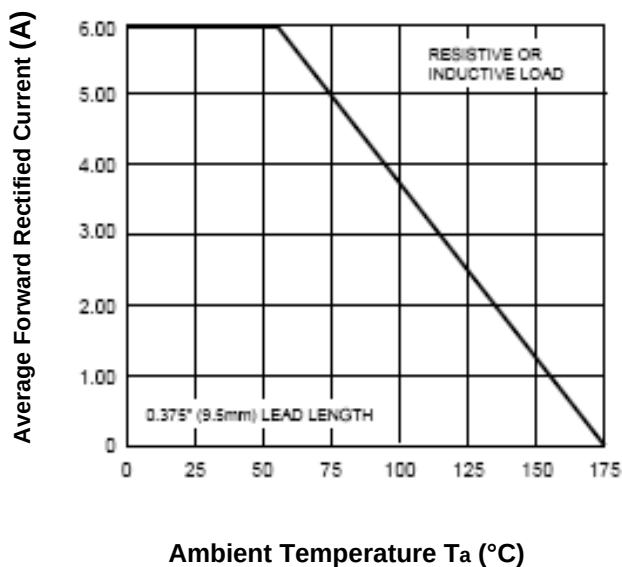
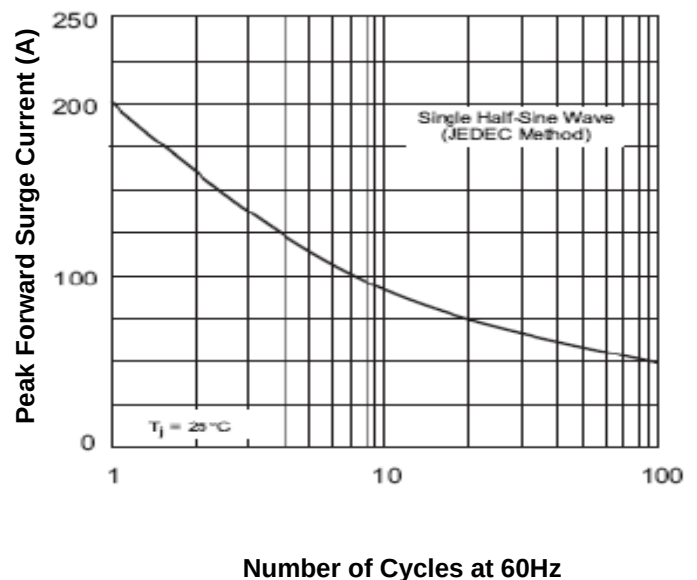


Fig.2-Max. Non-Repetitive Forward Surge Current



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## EGP60A - EGP60G

Fig.3- Typical Forward Characteristics

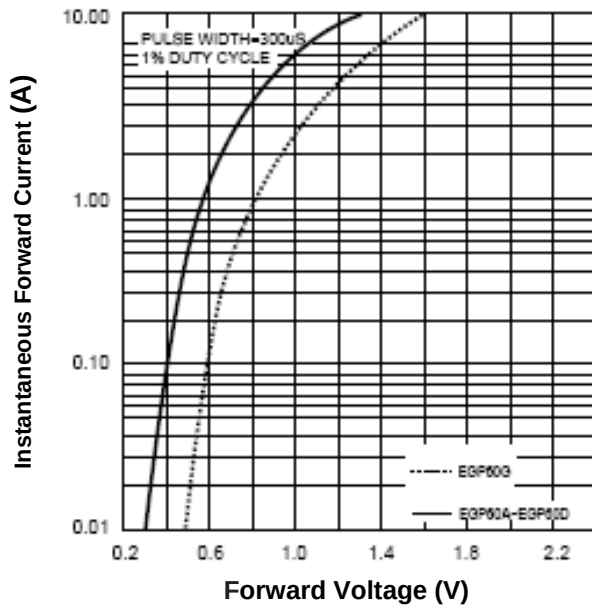


Fig.4-Typical Reverse Characteristics

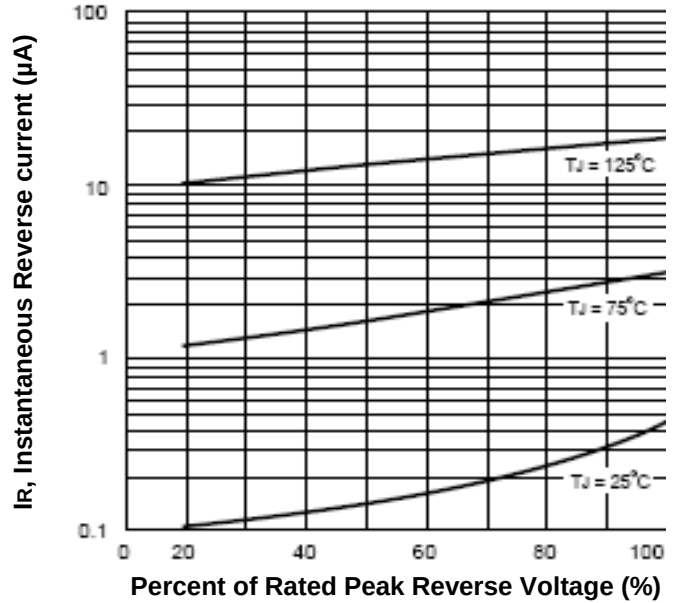
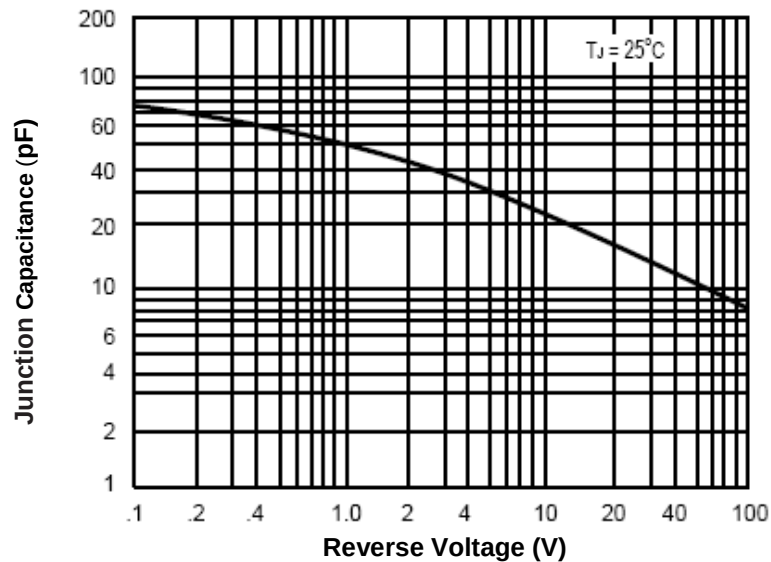


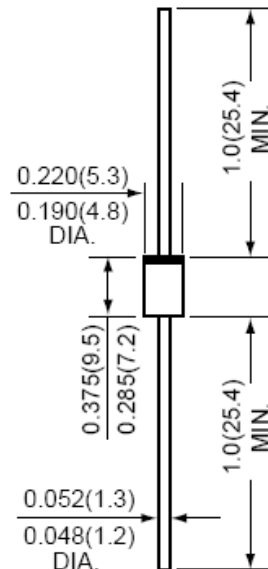
Fig.5- Typical Junction Capacitance



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## EGP60A - EGP60G

Dimensions in inches (mm)



DO-201AD

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