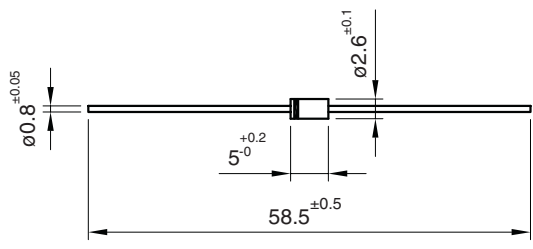



1 Amp. Glass Passivated Avalanche Ultrafast Recovery Rectifier

| | |
|--|--|
| <p>Dimensions in mm.</p> <p style="text-align: center;">DO-41 (Plastic)</p>  <p>Mounting instructions</p> <ol style="list-style-type: none"> 1. Min. distance from body to soldering point, 4 mm. 2. Max. solder temperature, 350 °C. 3. Max. soldering time, 3.5 sec. 4. Do not bend lead at a point closer than 2 mm. to the body. | <p style="text-align: center;">Voltage 50 to 600 V</p> <p style="text-align: center;">Current 1.0 A at 55 °C</p> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Glass passivated junction • High current capability • The plastic material carries U/L recognition 94 V-0 • Terminals: Axial Leads • Polarity: Color band denotes cathode |
|--|--|

Maximum Ratings, according to IEC publication No. 134

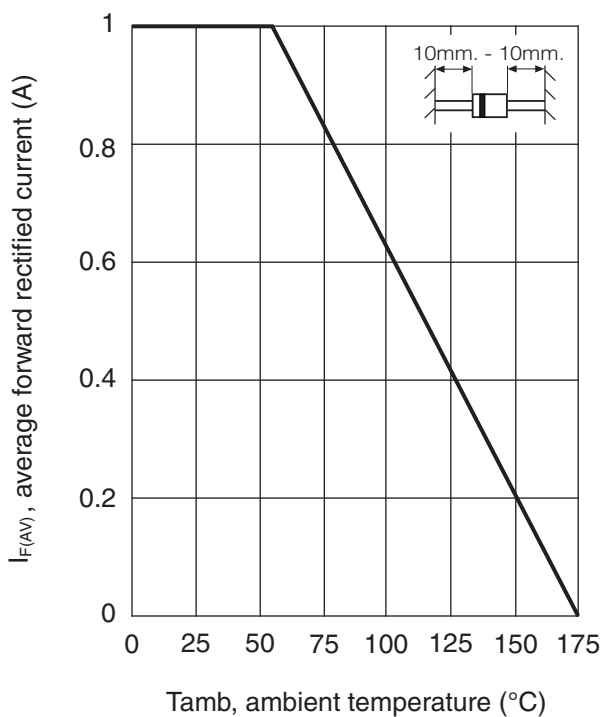
| | | EGP10A | EGP10B | EGP10D | EGP10F | EGP10G | EGP10J |
|--------------------|---|-----------------|--------|--------|--------|--------|--------|
| V _{RRM} | Peak Recurrent Reverse Voltage (V) | 50 | 100 | 200 | 300 | 400 | 600 |
| V _{RMS} | Maximum RMS Voltage (V) | 35 | 70 | 140 | 210 | 280 | 420 |
| V _{DC} | Maximum DC Blocking Voltage (V) | 50 | 100 | 200 | 300 | 400 | 600 |
| I _{F(AV)} | Forward current at Tamb = 55 °C | 1 A | | | | | |
| I _{FRM} | Recurrent peak forward current | 10 A | | | | | |
| I _{FSM} | 8.3 ms. peak forward surge current (Jedec Method) | 30 A | | | | | |
| t _{rr} | Max. reverse recovery time from I _F = 0.5 A ; I _R = 1 A ; I _{RR} = 0.25 A | 50 ns | | | | | |
| C _j | Typical Junction Capacitance at 1 MHz and Reverse Voltage of 4V _{DC} | 15 pF | | | | | |
| T _j | Operating temperature range | -65 to + 150 °C | | | | | |
| T _{stg} | Storage temperature range | -65 to + 150 °C | | | | | |
| E _{RSM} | Maximum non repetitive peak reverse avalanche energy I _R = 0.5 A ; T _j = 25 °C | 20 mJ | | | | | |

Electrical Characteristics at Tamb = 25 °C

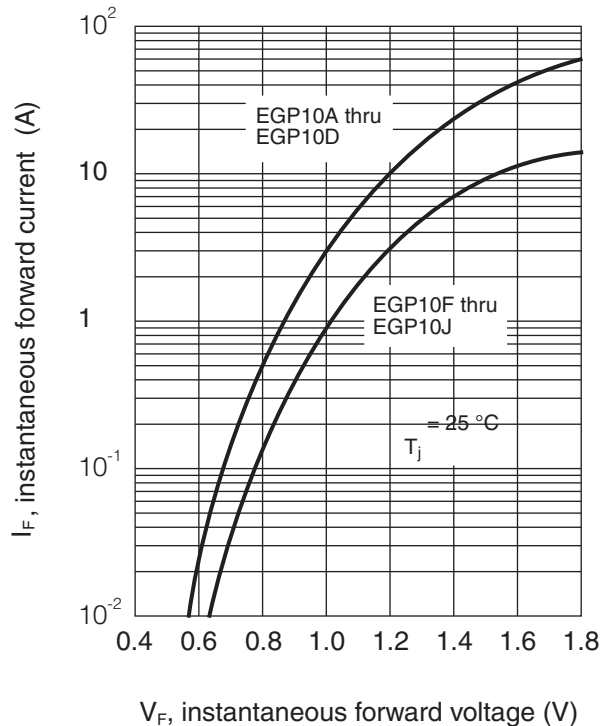
| | | | |
|----------------------|---|---------------|--------|
| V _F | Maximum forward voltage drop at I _F = 1 A | 0.95 V | 1.25 V |
| I _R | Max. reverse current at V _{RRM} at 25 °C at 150 °C | 5 µA 50 µA | |
| R _{th(j-a)} | Max. thermal resistance (l = 10mm) | 60 °C/W | |

Rating And Characteristic Curves

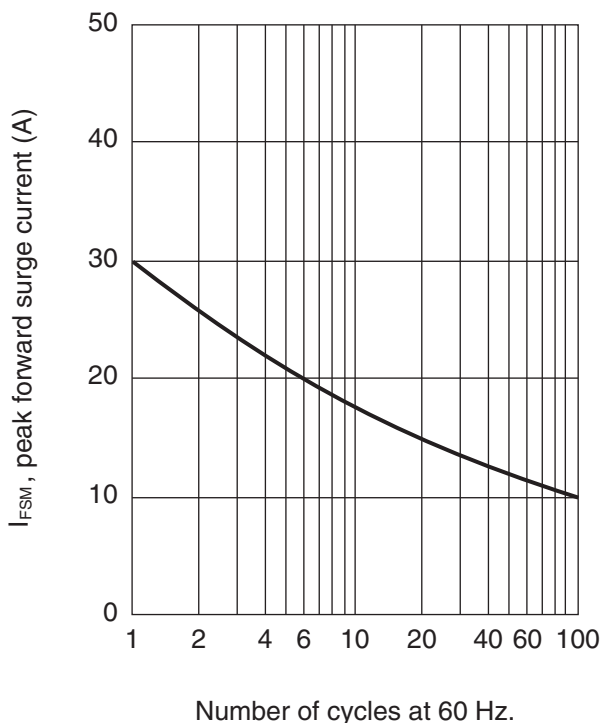
FORWARD CURRENT DERATING CURVE



TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

