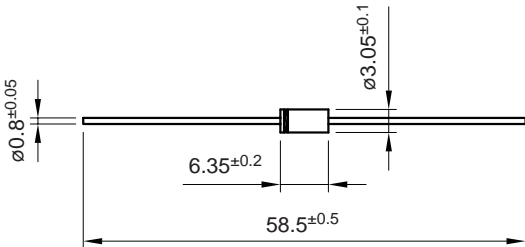



## 1.5 Amp. Glass Passivated Junction Rectifier

<p>Dimensions in mm.</p> <p style="text-align: right;">DO-15 (Plastic)</p>  <p><b>Mounting instructions</b></p> <ol style="list-style-type: none"> <li>1. Min. distance from body to soldering point, 4 mm.</li> <li>2. Max. solder temperature, 350 °C.</li> <li>3. Max. soldering time, 3.5 sec.</li> <li>4. Do not bend lead at a point closer than 2 mm. to the body.</li> </ol>	<p style="text-align: center;">Voltage 50 to 1000 V</p> <p style="text-align: center;">Current 1.5 A at 55 °C</p> <div style="text-align: center; margin: 20px 0;">  </div> <ul style="list-style-type: none"> <li>• Glass passivated junction</li> <li>• High current capability</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminals: Axial Leads</li> <li>• Polarity: Color band denotes cathode</li> </ul>
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### Maximum Ratings, according to IEC publication No. 134

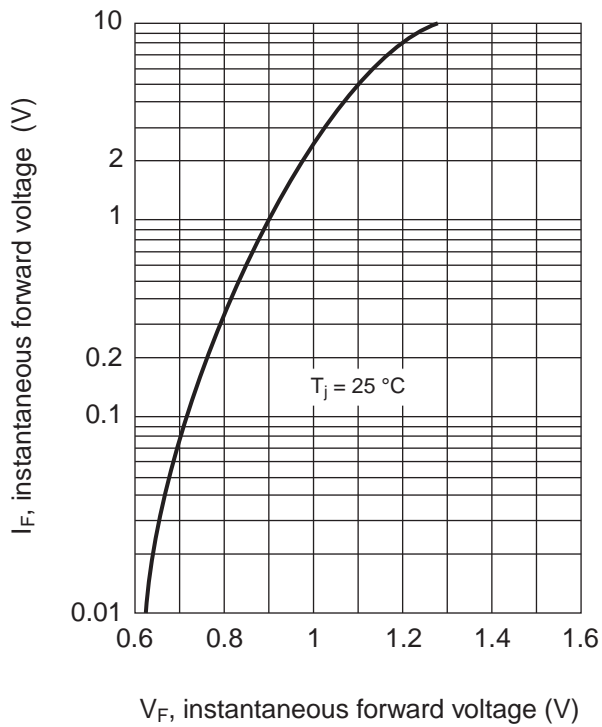
		GP15A	GP15B	GP15D	GP15G	GP15J	GP15K	GP15M
$V_{RRM}$	Peak Recurrent Reverse Voltage (V)	50	100	200	400	600	800	1000
$I_{FAV}$	Forward current at $T_{amb} = 55\text{ °C}$	1.5 A						
$I_{FRM}$	Recurrent peak forward current	10 A						
$I_{FSM}$	8.3 ms. peak forward surge current (Jedec Method)	50 A						
$T_j$	Operating Temperature Range	-65 to +150 °C						
$T_{stg}$	Storage Temperature Range	-65 to +175 °C						
$E_{RSM}$	Maximum non Repetitive Peak Reverse Avalanche energy. $I_R = 1\text{ A}; T_j = 25\text{ °C}$	20 mJ						

### Electrical Characteristics at $T_{amb} = 25\text{ °C}$

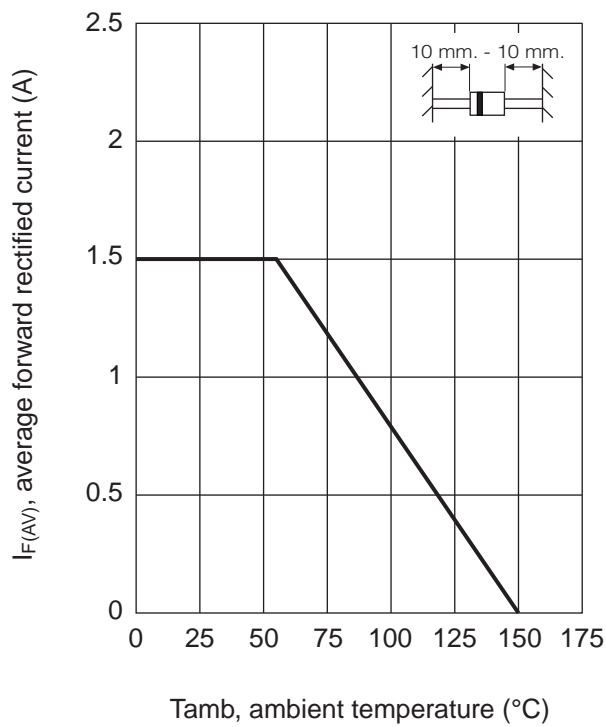
$V_F$	Maximum Forward Voltage Drop at $I_F = 1.5\text{ A}$	1.1 V
$I_R$	Maximum Reverse Current at $V_{RRM}$ at 25 °C at 150 °C	5 $\mu\text{A}$ 200 $\mu\text{A}$
$R_{th(j-a)}$	Thermal Resistance ( $l = 10\text{mm.}$ ) Max. Typ.	50 °C/W 30 °C/W

Rating And Characteristic Curves

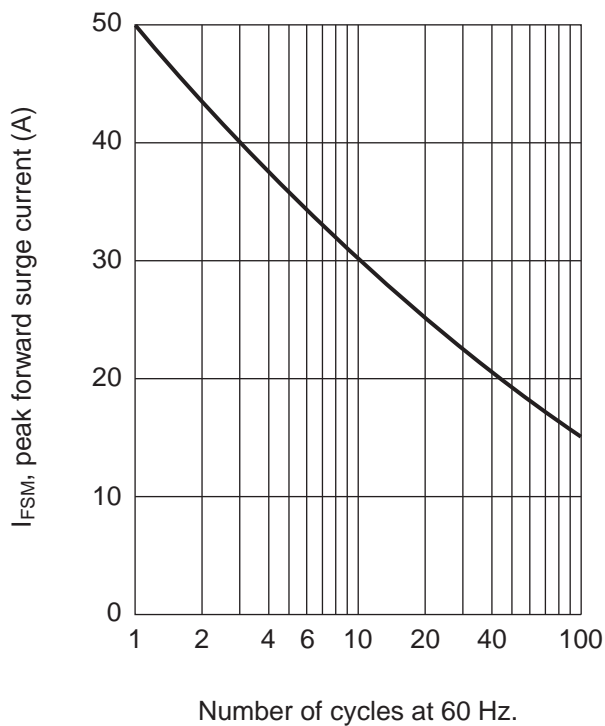
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

