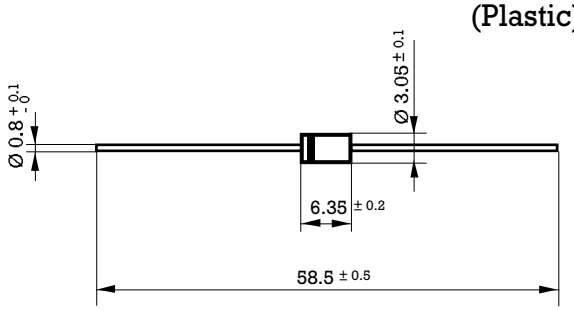
1.5 Amp. Glass Passivated Junction Rectifier

Dimensions in mm. DO-15 (Plastic)



Voltage 50 to 1000 V. Current 1.5 A. at 70 °C.

HYPERECTIFIER®

Mounting instructions

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.

- **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

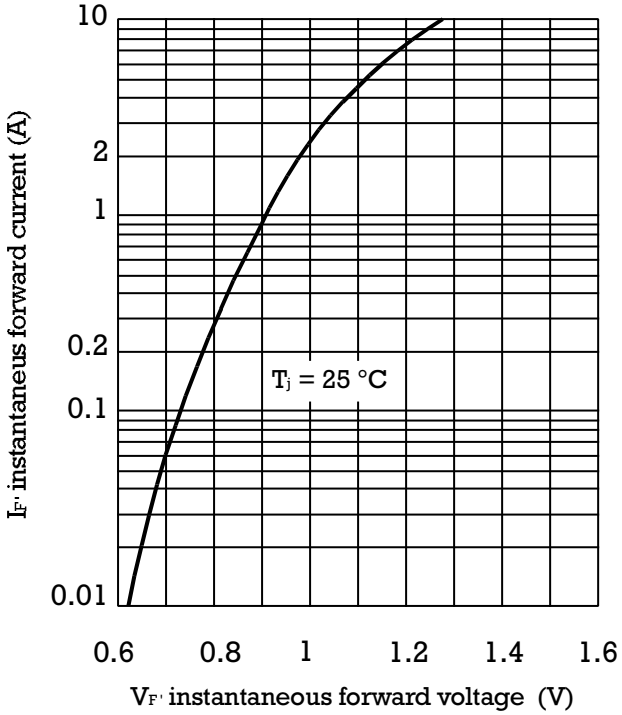
		1N 5391GP	1N 5392GP	1N 5393GP	1N 5394GP	1N 5395GP	1N 5396GP	1N 5397GP	1N 5398GP	1N 5399GP
V_{RRM}	Peak recurrent reverse voltage (V)	50	100	200	300	400	500	600	800	1000
$I_{F(AV)}$	Forward current at Tamb = 70 °C	1.5 A								
I_{FRM}	Recurrent peak forward current	10 A								
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	50 A								
T_j	Operating temperature range	– 65 to + 175 °C								
T_{stg}	Storage temperature range	– 65 to + 175 °C								
E_{RSM}	Maximum non repetitive peak reverse avalanche energy. I_R = 1 A ; T_J = 25 °C	20 mJ								

Electrical Characteristics at Tamb = 25 °C

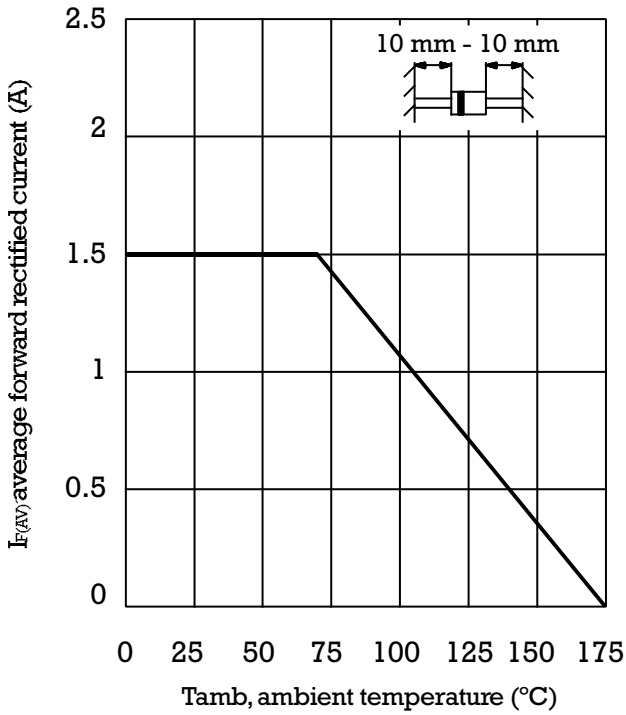
V_F	Max. forward voltage drop at I_F = 1.5 A		1.2 V
I_R	Max. reverse current at V_{RRM}	at 25 °C at 100 °C	5 µ A 300 µ A
R_{thj-a}	Thermal resistance (I = 10 mm.)	Max. Typ.	50 °C/W 30 °C/W

Rating And Characteristic Curves

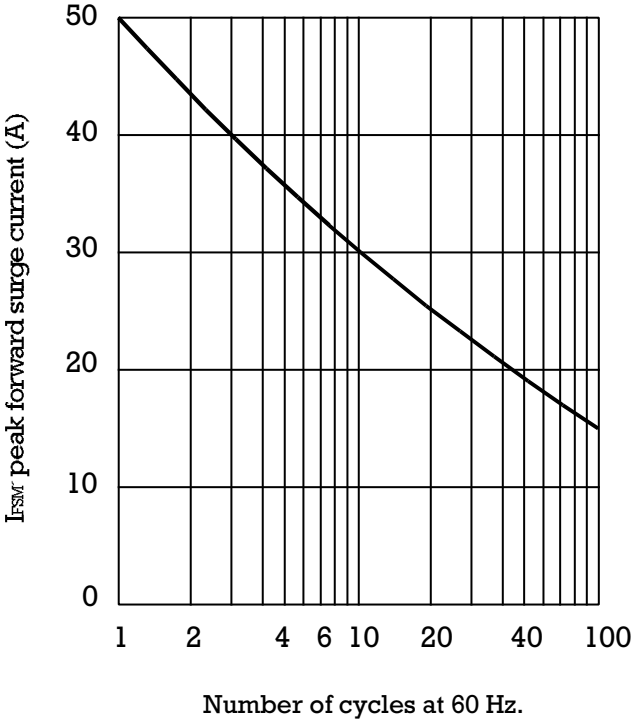
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE