GF1650LA

16 AMPS. SCHOTTKY BARRIER RECTIFIER

Voltage Range
50 Volts
Current
16.0 Amperes

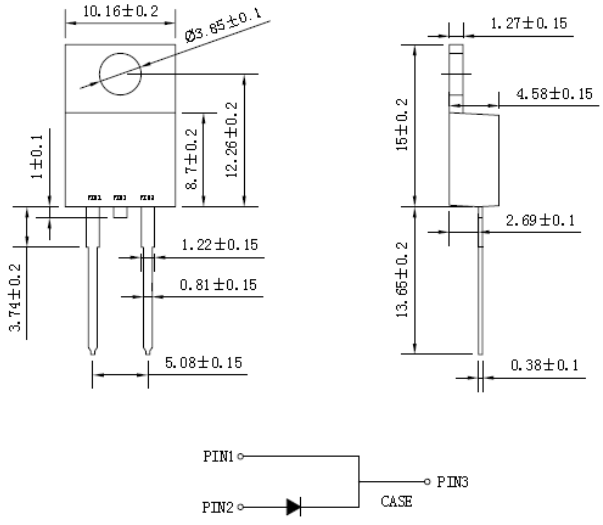
Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data

- Cases: TO-220AC molded plastic
- Epoxy: UL 94V-O rate flame retardant
- Terminals: Lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: As marked
- High temperature soldering guaranteed: 260℃/10 seconds/ .25",(6.35mm) from case
- Weight: 2.24 grams

TO-220AC



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number		GF1650LA	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	**50**	**V**
Maximum RMS Voltage	V_{RMS}	**35**	**V**
Maximum DC Blocking Voltage	V_{DC}	**50**	**V**
Maximum Average Forward Rectified Current See Fig. 1	$I_{(AV)}$	**16.0**	**A**
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	**275**	**A**
Peak Repetitive Reverse Surge Current (Note 1)	I_{RRM}	**1.0**	**A**
Maximum Instantaneous Forward Voltage at (Note 2) IF=16A, Tc=25℃	V_F	**0.65**	**V**
Maximum Instantaneous Reverse Current @ Tj =25℃at Rated DC Blocking Voltage (Note 2) @ Tj =125℃	I_R	**0.5** **50**	**mA** **mA**
Typical Junction Capacitance (Note 3)	Cj	**450**	**pF**
Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	**1.5**	**℃/W**
Operating Junction Temperature Range In DC forward mode	T_J	**-55 to +150** **-55 to +200**	**℃**
Storage Temperature Range	T_{STG}	**-55 to +150**	**℃**

NOTES:
1. 2.0us Pulse Width, f=1.0 KHz
2. Pulse Test: 300us Pulse Width, 1% Duty Cycle
3. Mounted on Heatsink Size of 2 in x 3 in x 0.25in Al-Plate.

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RATING AND CHARACTERISTIC CURVES
GF1650LA

FIG. 1-FORWARD CURRENT DERATING CURVE

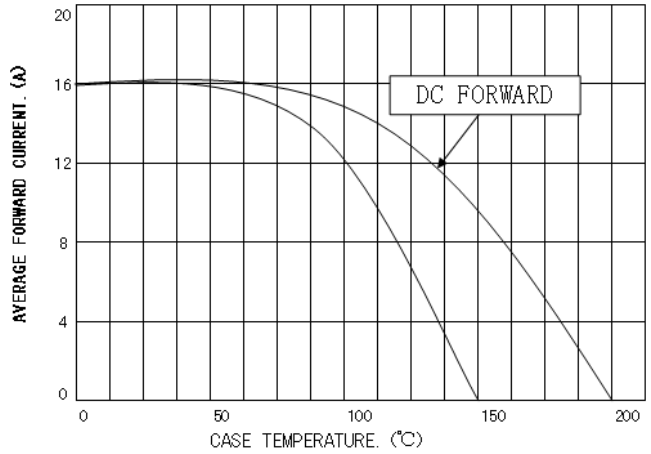


FIG. 2-MAXIMUN NON-REPETITIVE

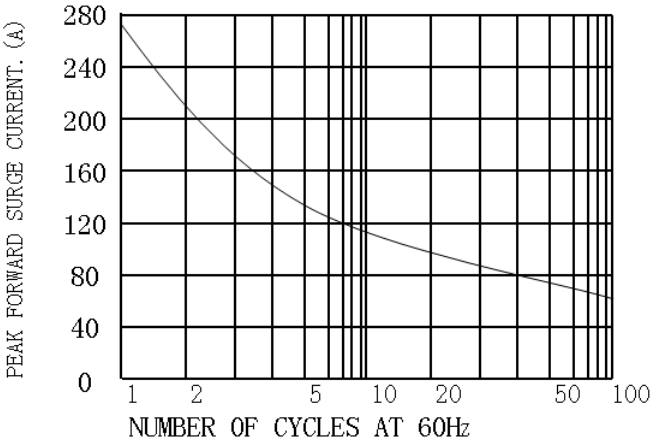


FIG. 3-TYPICAL INSTANTANEOVS FORWARD CHARACTERISTIC

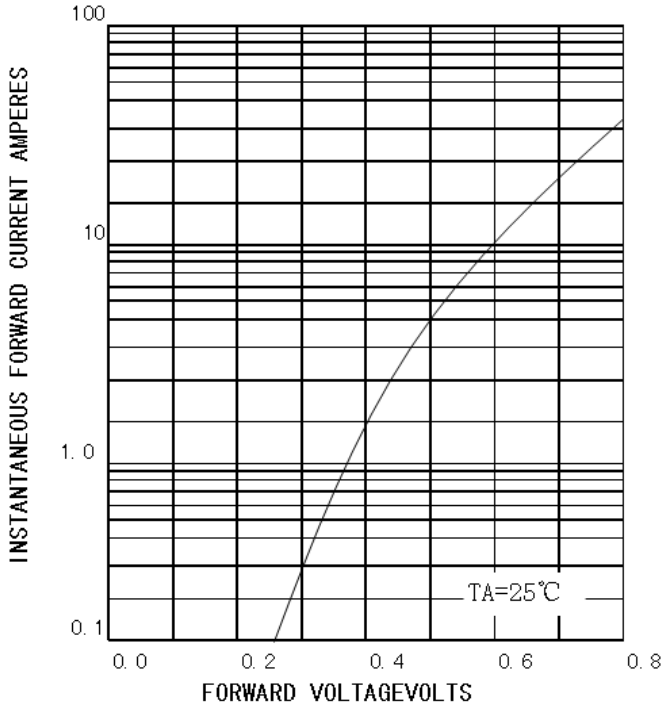


FIG. 4-TYPICAL REVERSE CHARACTERISTIC

