

## **GF1645LA**

### 16 AMPS. SCHOTTKY BARRIER RECTIFIER

**Voltage Range** 45 Volts Current 16.0 Amperes

#### **Features**

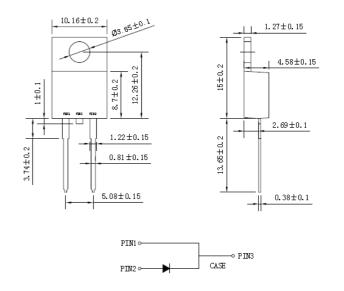
- . Low forward voltage drop
- . High current capability
- . High reliability
- . High surge current capability

#### **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°C/10 seconds/ .25",(6.35mm) from case
- . Weight: 2.24 grams



Dimensions in millimeters

## **Maximum Ratings and Electrical Characteristics**

Rating at 25  $^{\circ}$ C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number		GF1645LA	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	45	V
Maximum RMS Voltage	Vrms	31.5	V
Maximum DC BI <sup>®</sup> Cking Voltage	V <sub>DC</sub>	45	٧
Maximum Average Forward Rectified Current See Fig. 1	I(AV)	16.0	Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	IFSM	275	А
Peak Repetitive Reverse Surge Current (Note 1)	IRRM	1.0	A
Maximum Instantaneous Forward Voltage at (Note 2) IF=16A, Tc=25℃	VF	0.65	v
Maximum Instantaneous Reverse Current @ Tj =25°Cat Rated DC Blocking Voltage (Note 2) @ Tj =125°C	l <sub>R</sub>	0.5 50	mA mA
Typical Junction Capacitance (Note 3)	Cj	450	pF
Maximum Thermal Resistance, Junction to Case	R⊕JC	1.5	°C/W
Operating Junction Temperature Range In DC forward mode	TJ	-55 to +150 -55 to +200	င
Storage Temperature Range	Tstg	-55 to +150	°C

- **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.

# RATING AND CHARACTERISTIC CURVES GF1645LA



