

GF2550HE

25 AMPS. SCHOTTKY BARRIER RECTIFIER

Voltage Range 45 Volts Current 25.0 Amperes

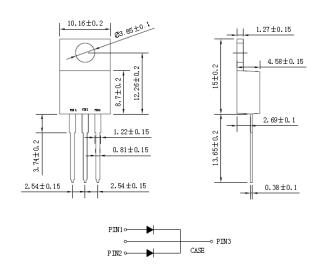
Features

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

Mechanical Data

- . Cases: TO-220AB 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

TO-220AB



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		GF2550HE	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	٧
Maximum RMS Voltage	VRMS	35	٧
Maximum DC BI ℃king Voltage	VDC	50	٧
Maximum Average Forward Rectified Current See Fig. 1	I(AV)	25	Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	275	Α
Peak Repetitive Reverse Surge Current (Note 1)	IRRM	1.0	Α
Maximum Instantaneous Forward Voltage at (Note 2) IF=12.5A, Tc=25 ℃	VF	0.65	٧
Maximum Instantaneous Reverse Current @ Tj =25°Cat Rated DC Blocking Voltage (Note 2) @ Tj =125°C	lr	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
$ \begin{array}{ll} \mbox{Operating Junction Temperature Range} \\ \mbox{at reduced reverse voltage} & \mbox{VR} & \leqslant 80\% \mbox{ VRRM} \\ \mbox{in DC forward mode} & \leqslant 50\% \mbox{ VRRM} \\ \end{array} $	TJ	-55 to +150	°C
Temperature Range	Tstg	-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.

RATING AND CHARACTERISTIC CURVES GF2550HE



