

GV804B SERIES

SURFACE MOUNT RECTIFIER

Voltage 400~1000 V **Current** 8 A

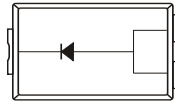
TO-277B Dimension Unit: inch(mm)

Features

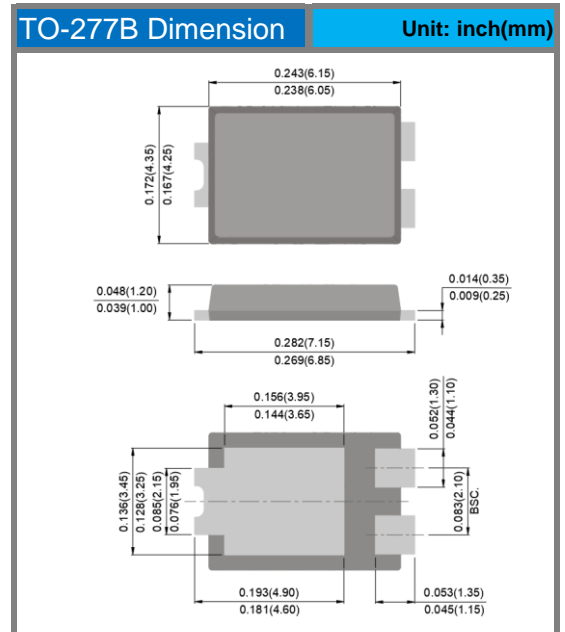
- For surface mounted applications in order to optimize board space
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: TO-277B package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.00327 ounces, 0.093505 grams
- Marking: Part number



TOP VIEW



Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	GV804B	GV806B	GV808B	GV810B	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	400	600	800	1000	V
Maximum rms voltage	V _{RMS}	280	420	560	700	V
Maximum dc blocking voltage	V _R	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	8				A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	200				A
Maximum forward voltage at 8A	V _F	1.1				V
Maximum dc reverse current at rated dc blocking voltage	I _R	5				μA
Typical junction capacitance Measure at 1MHz and applied V _R =4V	C _J	55				pF
Typical thermal resistance	(Note 1) R _{θJC}	3				°C/W
	(Note 2) R _{θJA}	110				
Operating junction temperature range	T _J	-55 to +150				°C
Storage temperature range	T _{STG}	-55 to +150				°C

Note : 1. Mounted on a 10cm x 10cm x 0.5mm copper pad area.
2. Mounted on a FR4 PCB, single-sided copper, mini pad.

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TYPICAL CHARACTERISTIC CURVES

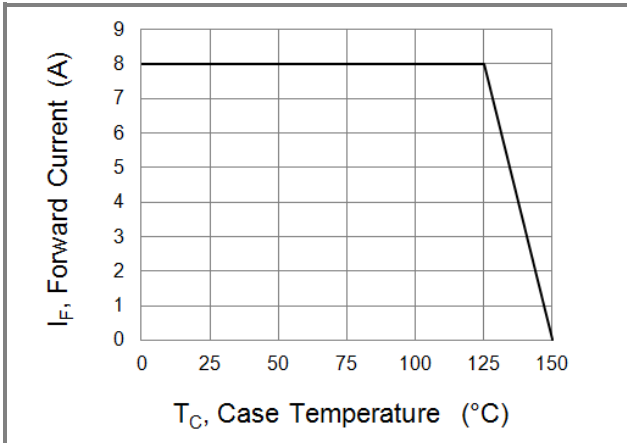


Fig.1 Forward Current Derating Curve

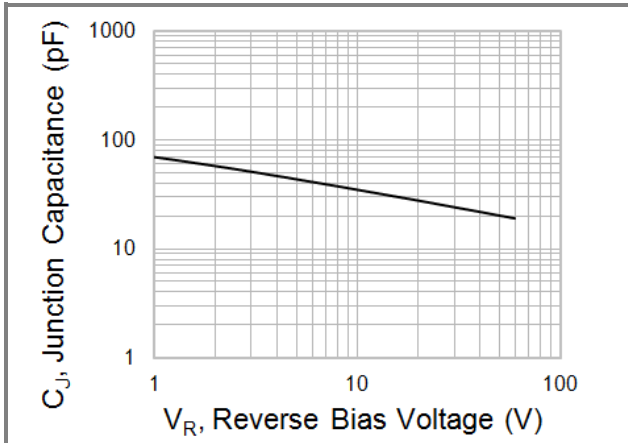


Fig.2 Typical Junction Capacitance

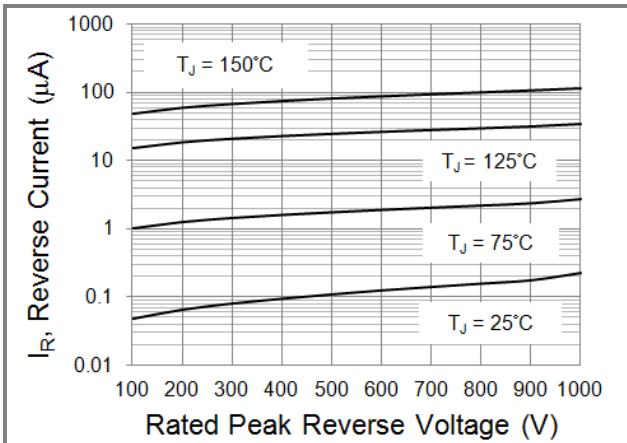


Fig.3 Typical Reverse Characteristics

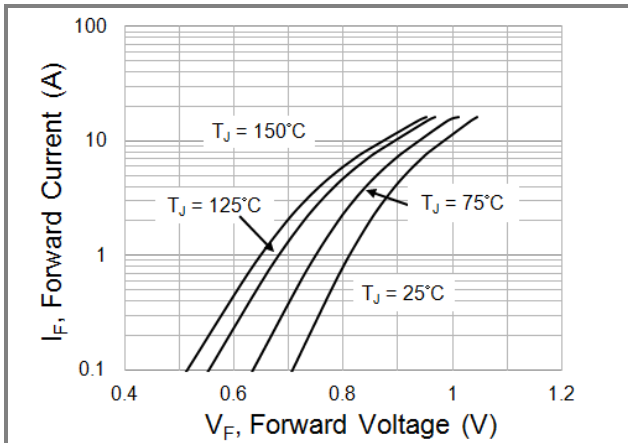


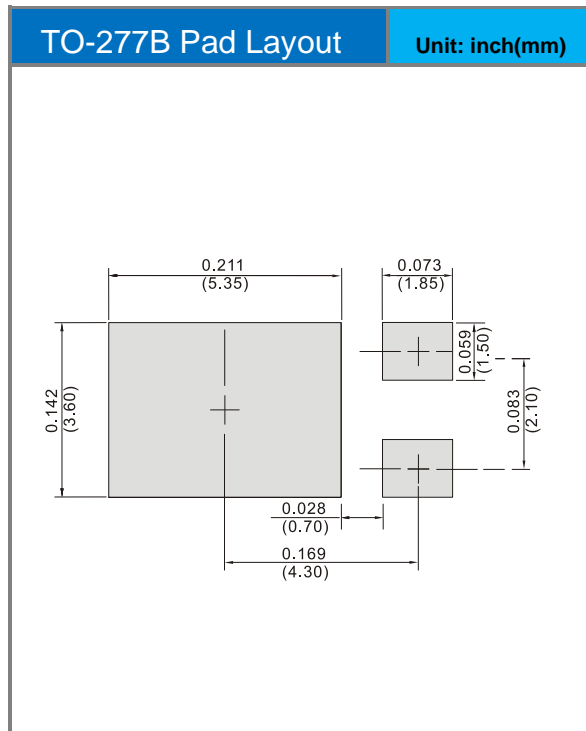
Fig.4 Typical Forward Characteristics

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GV804B	TO-277B	5K pcs / 13" reel	GV804B
GV806B	TO-277B	5K pcs / 13" reel	GV806B
GV808B	TO-277B	5K pcs / 13" reel	GV808B
GV810B	TO-277B	5K pcs / 13" reel	GV810B

Mounting Pad Layout



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