

## GV804B SERIES

### SURFACE MOUNT RECTIFIER

**Voltage**

**400~1000 V**

**Current**

**8 A**

**TO-277B**

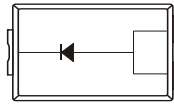
Unit : inch(mm)

#### Features

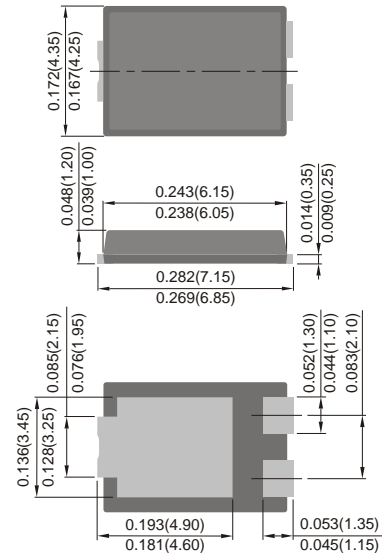
- For surface mounted applications in order to optimize board space
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### 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 ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)

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

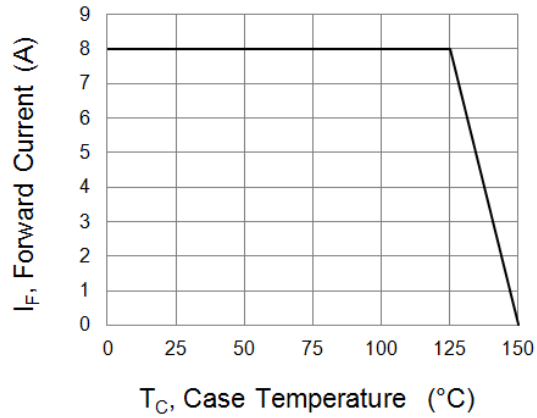


Fig.1 Forward Current Derating Curve

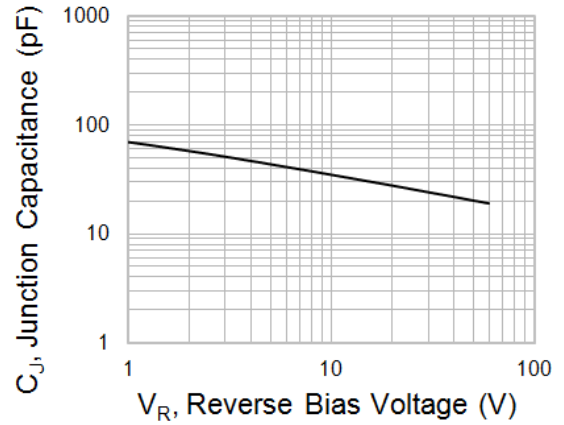


Fig.2 Typical Junction Capacitance

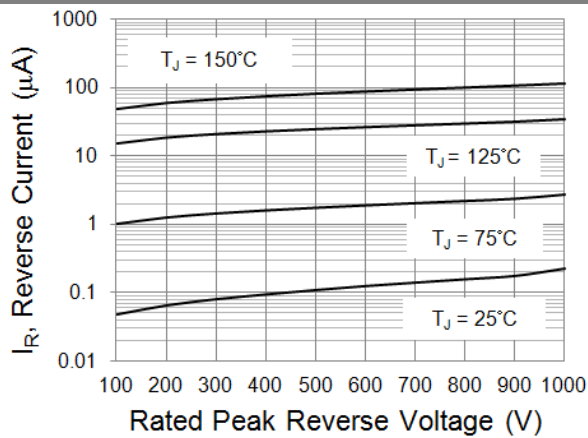


Fig.3 Typical Reverse Characteristics

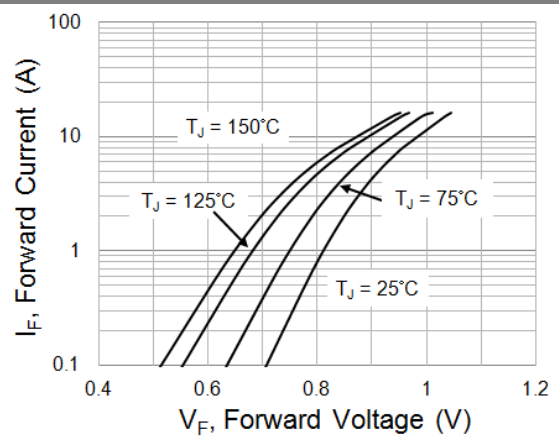
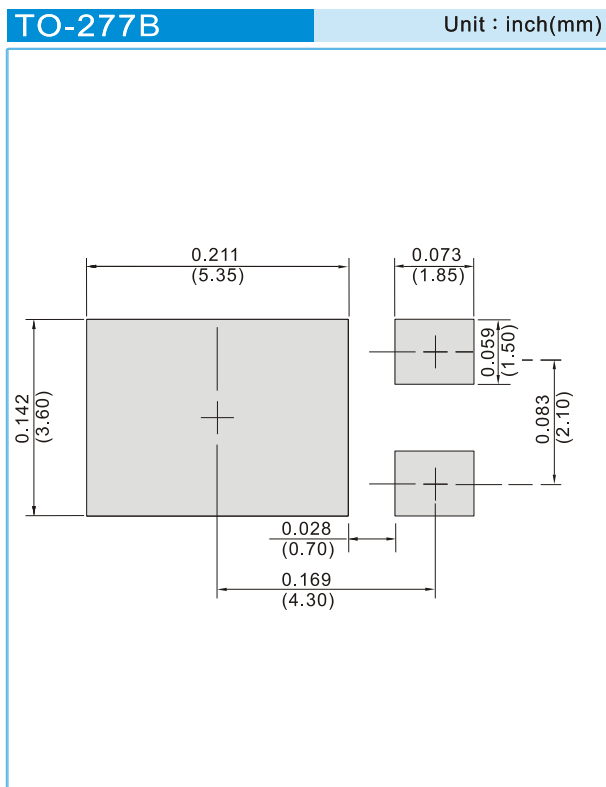


Fig.4 Typical Forward Characteristics

## GV804B SERIES

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information  
T/R – 5K per 13" plastic Reel

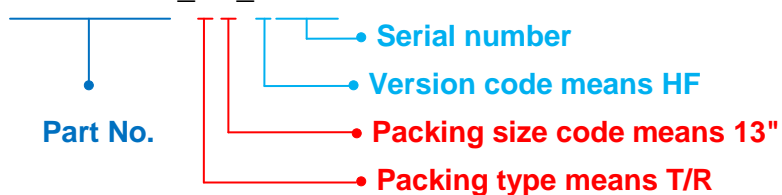
## GV804B SERIES

Part No\_packing code\_Version

GV804B\_R2\_00001

For example :

RB500V-40\_R2\_00001



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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