



GV804B SERIES

SURFACE MOUNT RECTIFIER

Voltage

400~1000 V

Current

8 A

TO-277B

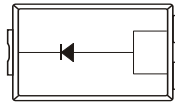
Unit : inch(mm)

Features

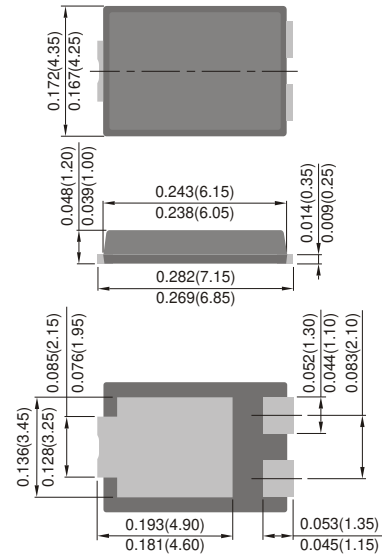
- For surface mounted applications in order to optimize board space
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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_{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 $V_R=4\text{V}$	C_J	55				pF
Typical thermal resistance	(Note 1) $R_{\theta JC}$	3				$^{\circ}\text{C/W}$
	(Note 2) $R_{\theta JA}$	110				
Operating junction temperature range	T_J	-55 to +150				$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to +150				$^{\circ}\text{C}$

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

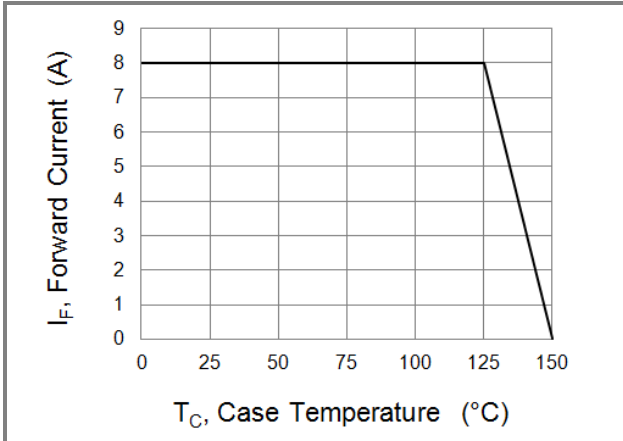


Fig.1 Forward Current Derating Curve

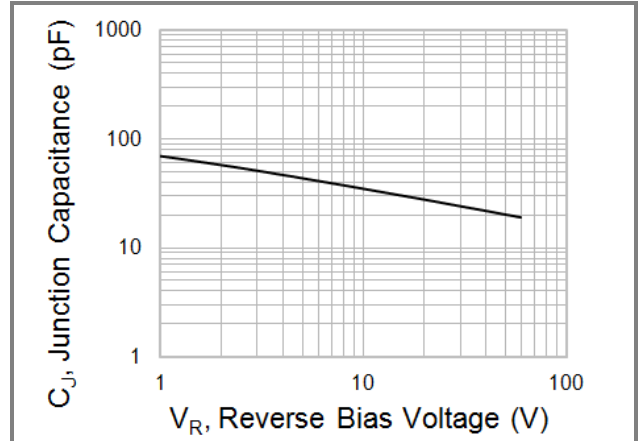


Fig.2 Typical Junction Capacitance

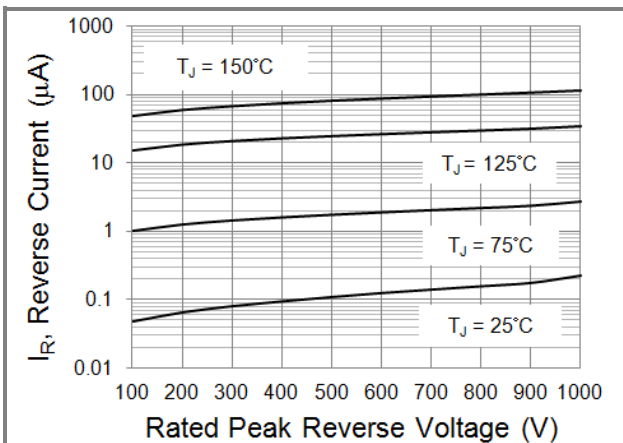


Fig.3 Typical Reverse Characteristics

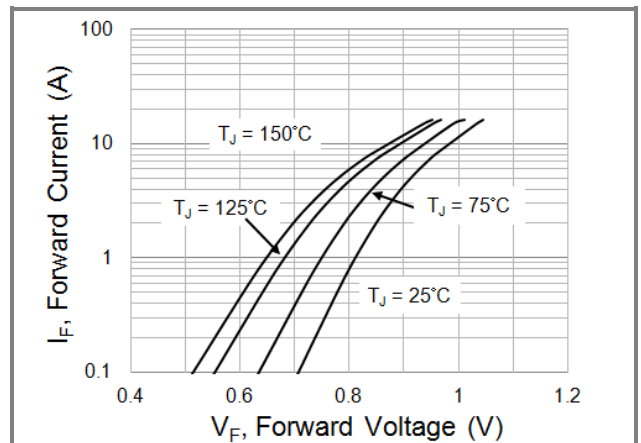
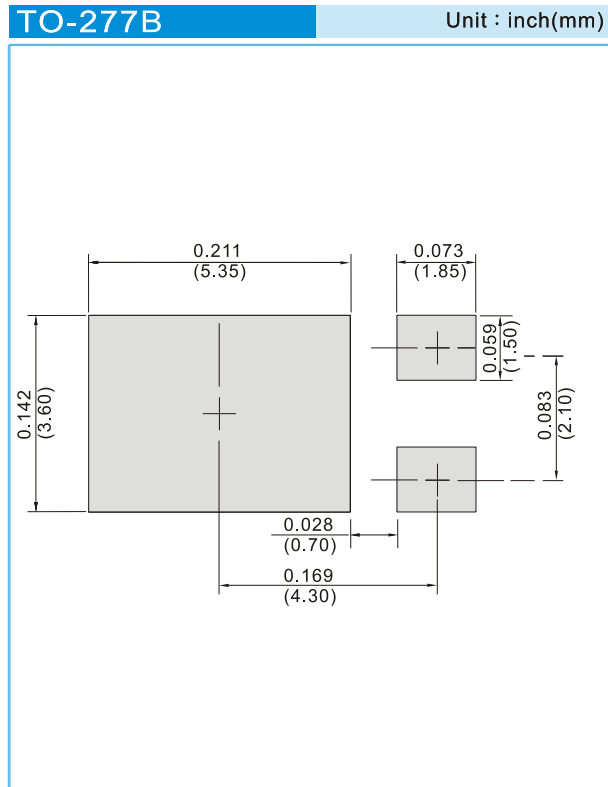


Fig.4 Typical Forward Characteristics



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



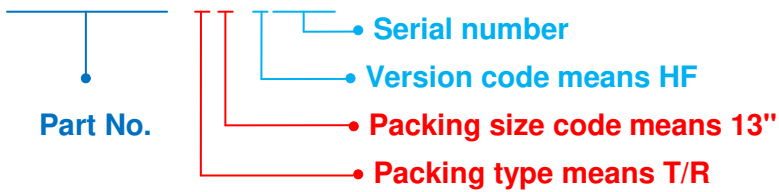
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Part No_packing code_Version

GV804B_R2_00001

For example :

RB500V-40_R2_00001



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



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