Glass Passivated Bridge Rectifiers

VOLTAGE 400 to 1000 Volt CURRENT 3 Ampere

FEATURES

- UL Recognized File #E228882
- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique.
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Glass passivated chip junction

MECHANICAL DATA

Case: GBP

- •Terminals: Leads solderable per MIL-STD-750, Method 2026
- Polarity: As marked on body
- Weight: 1.7g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

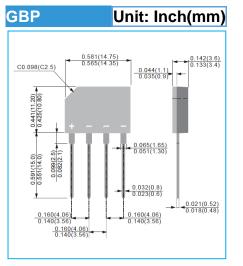
Rating at 25°Cambient temperature unless otherwise specified.

PARAMETER		SYMBOL	GBP 304	GBP 306	GBP 308	GBP 310	UNIT
Maximum repetitive peak reverse voltage		Vrrm	400	600	800	1000	V
Maximum RMS voltage		Vrms	280	420	560	700	V
Maximum DC blocking voltage		VDC	400	600	800	1000	V
Maximum average forward rectified current		F(AV)	3				
Peak forward surge current, 8.3 ms single half sine-wave		FSM	70				
Rating of fusing (t<8.3ms) (Note 1)		l ² t	20				
	F = 1.5 A F = 3 A	VF		1	l .1		V
	J =25°C J =125°C	I _R -	5			μA	
Typical junction capacitance (Note 2)		CJ	28				
Typical thermal resistance	(Note 3)	Re ja Re jc	45 2.5			°C/W	
Operating junction temperature range		TJ	- 55 to +150				
Storage temperature range		Тѕтс	- 55 to +150				

Note 1: Non-repetitive, for t>1ms and < 8.3ms.

Note 2: Measured at 1MHz and applied Reverse bias of 4V DC

Note 3: Thermal resistance from junction to ambient and from junction to case mounted on PCB





TYPICAL CHARACTERISTIC CURVES

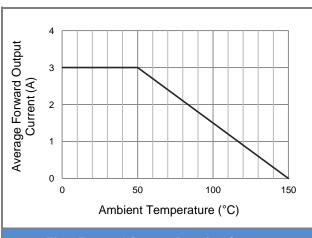


Fig.1 Forward Current Derating Curve

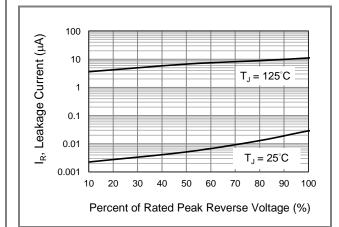
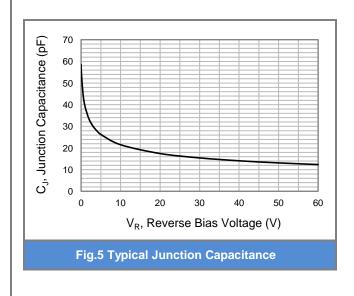
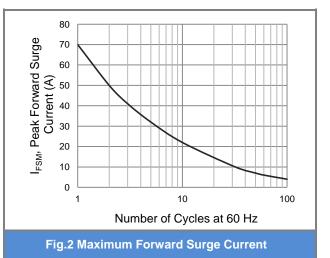


Fig.3 Typical Reverse Characteristics





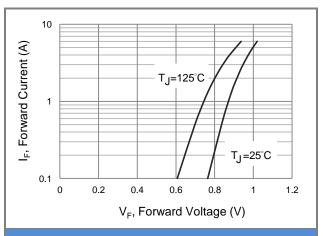


Fig.4 Typical Forward Characteristics

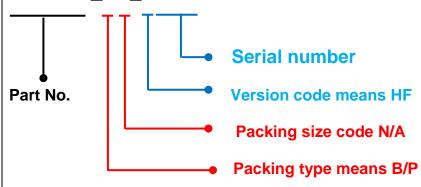




Part No_packing code_Version GBP304_B0_00001

GBP304_B0_10001

For example : GBP304_B0_00001



	Version Code XXXXX					
Packing type	I st Code	Packing size code	2 st Code	HF or RoHS	I st Code	$2^{st} \sim 5^{st}$ 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)	В	13"	2			
Tube Packing (T/P)	т	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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