



Glass Passivated Bridge Rectifiers

VOLTAGE

400 to 1000 Volt | CURRENT

35 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: GBPC-F

• Terminals: Leads solderable per MIL-STD-750, Method 2026

· Polarity: As marked on body

• Mounting torque: 20 inch-lbs. Max.

• Weight: 16.83g

Unit: Inch(mm) **GBPC-F** 0.25(6.35) Max. METAL HEAT SINK 0.674(17.1) 0.610(15.5) **EPOXY CASE** AC AC

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified.

PARAMETER		SYMBOL	GBPC 3504F	GBPC 3506F	GBPC 3508F	GBPC 3510F	UNIT
Maximum repetitive peak reverse voltage		Vrrm	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	280	420	560	700	V
Maximum DC blocking voltage		VDC	400	600	800	1000	V
Maximum average forward rectified current		I _{F(AV)}		Α			
Peak forward surge current, 8.3 ms single half sine-wave		FSM		А			
Rating of fusing (t<8.3ms)(Note1)		l ² t	664				A ² s
Maximum instantaneous for voltage per diode	vard I _F = 17.5 A I _F = 35 A	VF			•		V
Maximum reverse current @ rated V _R	T _J =25°C T _J =125°C	I _R		5 500			μΑ
Typical junction capacitance (Note 2)		Сл	153				pF
Typical thermal resistance	(Note3)	R e JC		1	.5		°C/W
Operating junction temperature range		TJ	- 55 to +150				°C
Storage temperature range		Тѕтс	- 55 to +150				°C

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

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

Note 3: Products installed on aluminum plate heatsink •

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TYPICAL CHARACTERISTIC CURVES

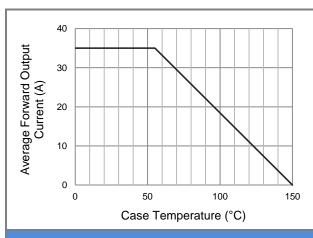


Fig.1 Forward Current Derating Curve

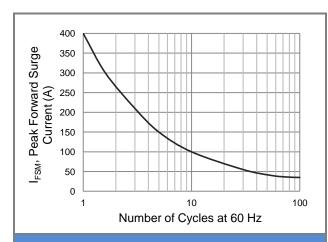


Fig.2 Maximum Forward Surge Current

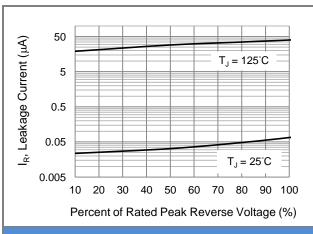


Fig.3 Typical Reverse Characteristics

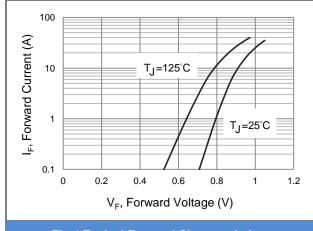
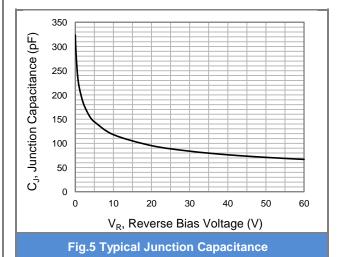


Fig.4 Typical Forward Characteristics



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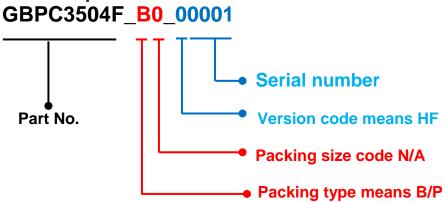




Part No_packing code_Version

GBPC3504F_B0_00001 GBPC3504F_B0_10001

For example :



Packing Code XX				Version Code XXXXX			
Packing type	I st Code	Packing size code	2 st Code	HF or RoHS	I st Code	2 st ~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	х				
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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