

GBPC3501 THRU GBPC3510

VOLTAGE RANGE CURRENT 100to 1000 Volts 35 Ampere

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Features

- Rating to 1000V PRV
- High efficiency
- Glass passivated chip junction
- Electrically isolated metal case for maximum heat dissipation
- The plastic material has UL flammability classification 94V-0
- Electrically isolated base-2500 Vlots

Mechanical Data

- Case: Molded plastic with Heatsink internally mounted in the bridge encapsulation
- Polarity: As marked on Body
- Mounting: Hole for # 10 screw
- Weight: 0.13 ounce, 3.66 gram

Maximum Ratings and Electrical Characteristics

Ratings at 25°Cambient temperature unless otherwise specified

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 Single Phase, half wave, 60Hz, resistive or 	inductive loa	d							
• For capacitive load derate current by 20%									
TYPE NUMBER		SYMBO LS	GBPC 3501	GBPC 3502	GBPC 3504	GBPC 3506	GBPC 3508	GBPC 3510	UNIT
Maximum Reverse Peak Repetitive Voltage		V_{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, at $T_c = T_A$		I _(AV)	35						Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load		I _{FSM}	450						Amps
Rating for Fusing (t < 8.3ms) (Note1)		l ² t	840						A ² s
Maximum Instantaneous Forward Voltage drop Per Bridge element 17.5A		V _F	1.1						Volts
Maximum Reverse Current at rated DC blocking voltage per element	TA=25℃				5	5.0			
	TA=125℃	I _R	500						μAmps
Typical Junction Capacitance Per Element (Note2)		C _J	300						pF
Typical Thermal Resistance (NOTE 3)		R _{⊚JC}	1.2						°C/W

 T_1

 $\mathsf{T}_{\mathtt{STG}}$

Notes:

- 1. Measured at non-repetitive, for greater than 1ms and less than 8.3ms.
- 2. Measured at 1.0MHz and applied reverse voltage of 1.0V DC.
- 3. Device mounted on 300mm×300mm×1.6mm Cu Plate Heatsink.

Operating Temperature Range

Storage Temperature Range

-55 to +150

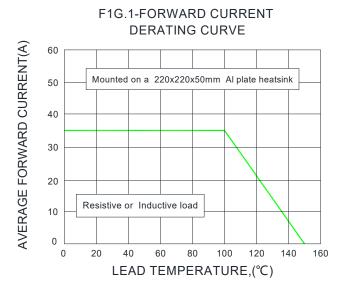
-55 to +150

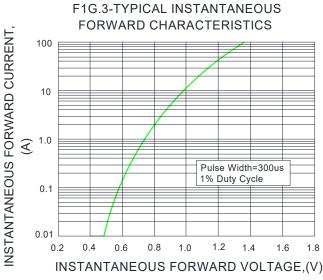


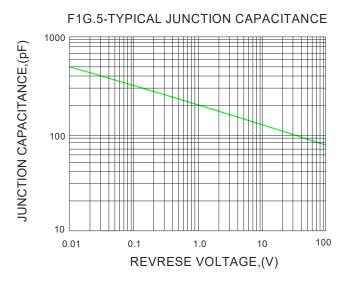
GBPC3501 THRU GBPC3510

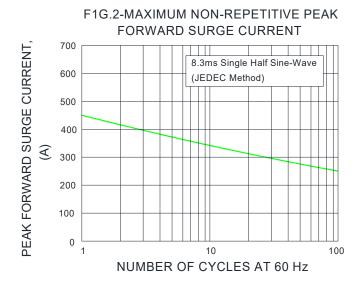
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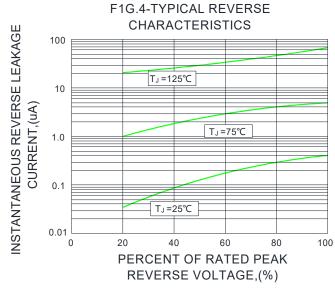
Ratings and Characteristic Curves (T_A=25℃ unless otherwise noted)













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