

GBPC5001W THRU GBPC5010W

VOLTAGE RANGE CURRENT 100to 1000 Volts 50 Ampere

ROHS

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: 0.47 ounces, 13.4 grams (wire)

Maximum Ratings and Electrical Characteristics

- Ratings at 25°Cambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

0.205(5.2) 0.197(5.0) 0.197(5.0)	0.47(11.9) 0.43(10.9) 0.43(10.9) (17.6) (28.8) 28.8)
METAL HEAT SINK EXOPY CASE—	0.442(11.2) 0.311(7.9)
0.042(1.10)DIA 0.038(0.97)TYP	0.78(19.8)MIN

GBPC-W

TYPE NUMBER		SYMBOLS	GBPC 5001W	GBPC 5002W	GBPC 5004W	GBPC 5006W	GBPC 5008W	GBPC 5010W	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 $T_{\rm c}$ = $T_{\rm A}$		I _(AV)	50						
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load		I _{FSM}	500						Amps
Rating for Fusing (t < 8.3ms) (Note1)		l ² t	1037						A ² s
50Hz,R.M.S,t=1min,l _{iso} :1mA(max)		V _{ISO}	3000						Volts
Maximum Instantaneous Forward Voltage drop Per Bridge element 25A		V _F	1.1						Volts
Maximum Reverse Current at rated DC blocking voltage per element	TA=25℃		5.0						μAmps
	TA=125℃	I _R	500						
Typical Junction Capacitance Per Element (Note2)		C _J	130						рF
Typical Thermal Resistance (NOTE 3)		R _{⊚JC}	5.0						°C/W
Operating Temperature Range		T ₁	-55 to +150						°C
Storage Temperature Range		T _{STG}	-55 to +150						℃

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.

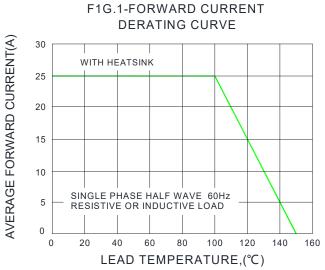


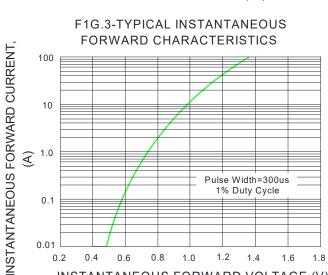
GBPC5001W THRU GBPC5010W

VOLTAGE RANGE **CURRENT**

100to 1000 Volts 50 Ampere

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





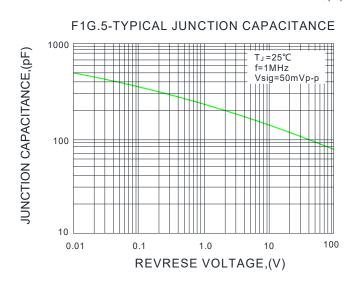
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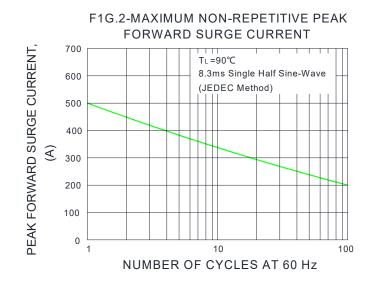
1.0

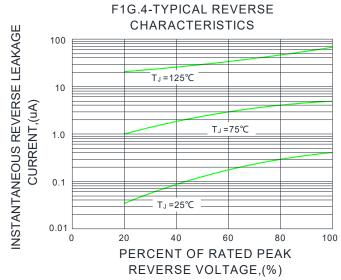
INSTANTANEOUS FORWARD VOLTAGE,(V)

1.2

1.6







0.01



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