

GBPC5001 THRU GBPC5010 GBPC

50 A GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 V

Forward Current - 50 A

Features

- ◆Glass passivated die construction
- ♦Low forward voltage drop
- ♦High current capability
- ♦High surge current capability
- ♦Plastic material-UL flammability 94V-0
- Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Data

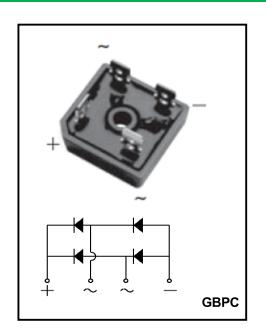
♦Case: GBPC

◆Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208
Polarity: As Marked on Case
Mounting Position: Any

♦ Marking: Type Number

♦Lead Free: For RoHS / Lead Free Version



Maximum Ratings and Electrical characteristics

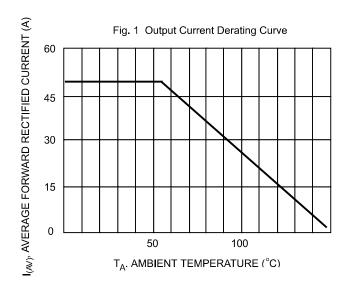
Ratings at 25 °C ambient temperature unless otherwise specified.

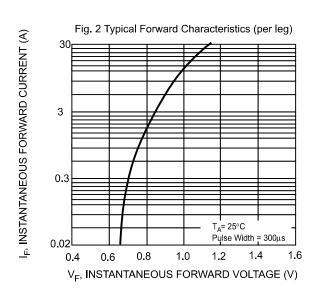
Parameter	Symbols	GBPC 5001	GBPC 5002	GBPC 5004	GBPC 5006	GBPC 5008	GBPC 5010	Units
Peak Repetitive Reverse Voltage	\mathbf{V}_{RRM}	100	200	400	600	800	1000	v
Peak Repetitive Reverse Voltage	V_{RWM}	70	140	280	420	560	700	v
DC Blocking Voltage	V _{RMS}	100	200	400	600	800	1000	v
Average Rectified Output Current (Note1) @TA=55 ℃	I _(AV)	50.0					A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	500				Α		
Forward Voltage per element @IF =25.0A	V _F	1.1				v		
Peak Reverse Current @TA=25°C At Rated DC Blocking Voltage @TA=125°C	I _R	10.0 500			μΑ			
Typical Junction Capacitance per leg	CJ	300			рF			
Typical Thermal Resistance per leg (Note 2)	$R_{ heta JL}$	2.2				°C/W		
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150			°C			

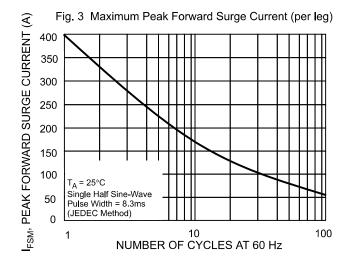
^{1.}Mounted on glass epoxy PC board with 1.3mm² solder pad. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

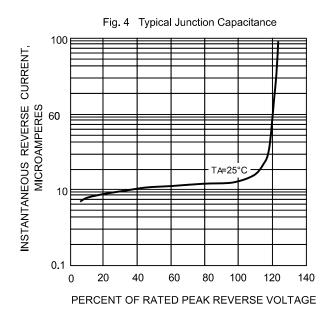


Ratings And Characteristic Curves





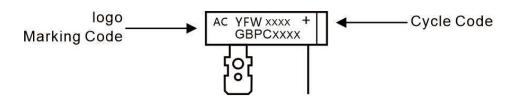






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Marking Diagram

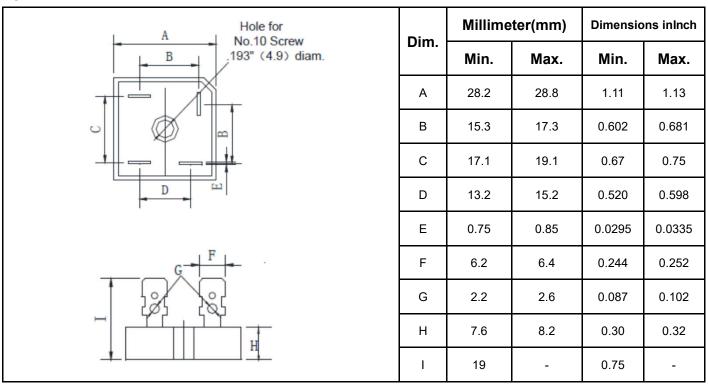


Ordering information

Package	Packing Description	Packing Quantity			
GBPC	bulk	50PCS/Box 500PCS/Carton			

Package Dimensions

GBPC



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