

15 A GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 V

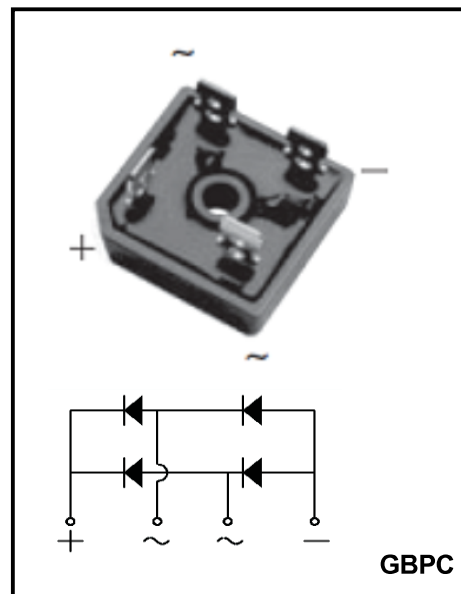
Forward Current – 15 A

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, molded plastic
- ◆ 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

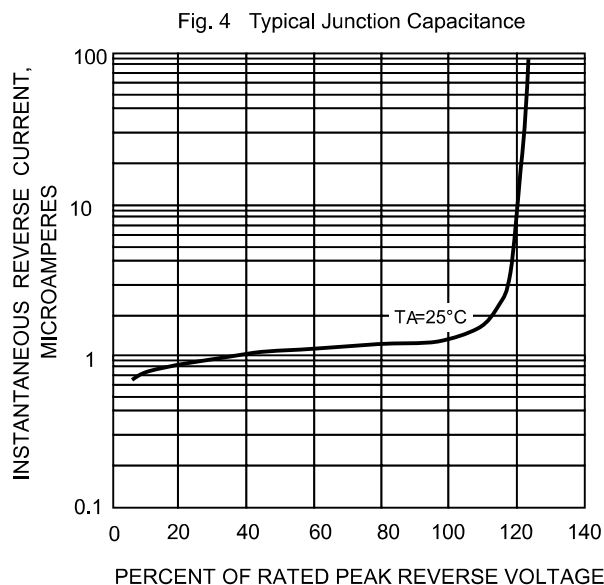
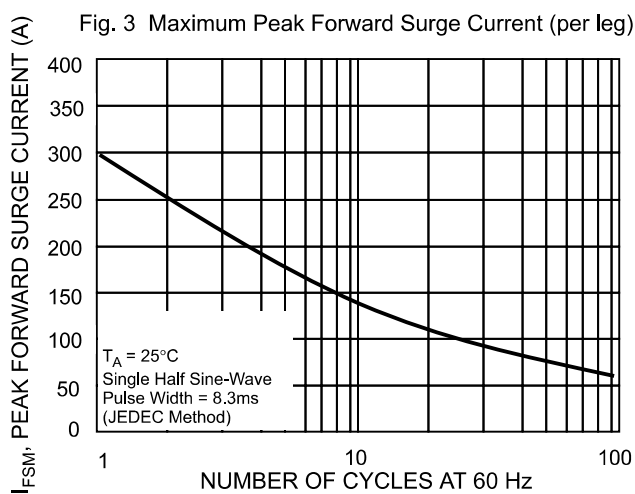
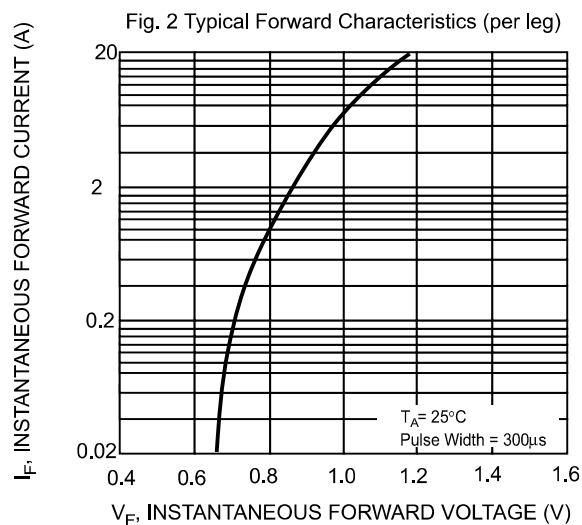
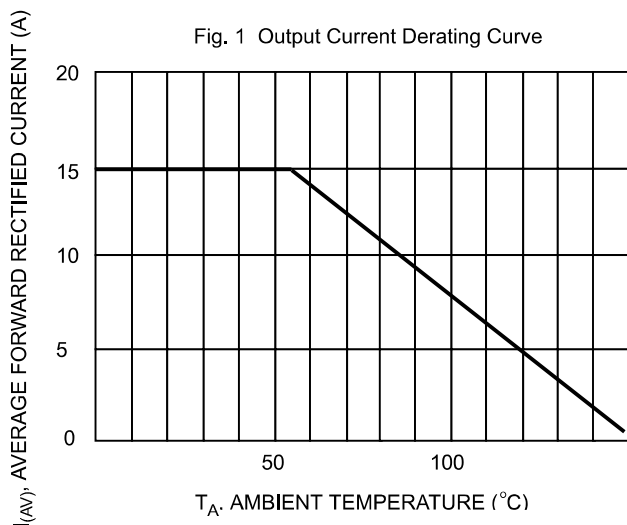
Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	GBPC 1501	GBPC 1502	GBPC 1504	GBPC 1506	GBPC 1508	GBPC 1510	Units
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Working Peak 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 °C	$I_{(AV)}$	15.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	300						A
Forward Voltage per element @IF =7.5A	V_F	1.1						V
Peak Reverse Current @TA=25°C At Rated DC Blocking Voltage @TA=125°C	I_R	5.0 500						μA
Typical Junction Capacitance per leg	C_J	300						pF
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JL}$	2.2						°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150						°C

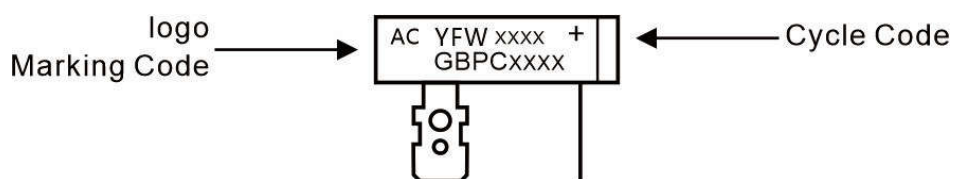
1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

Ratings And Characteristic Curves



Marking Diagram



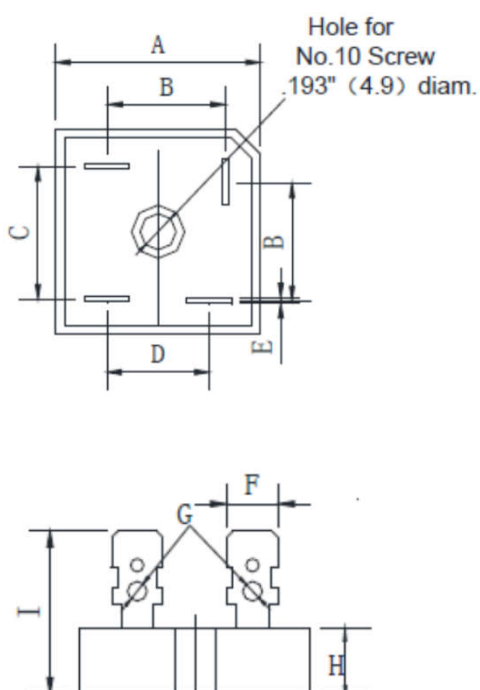
Ordering information

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

Package Dimensions

GBPC

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	28.2	28.8	1.11	1.13
B	15.3	17.3	0.602	0.681
C	17.1	19.1	0.67	0.75
D	13.2	15.2	0.520	0.598
E	0.75	0.85	0.0295	0.0335
F	6.2	6.4	0.244	0.252
G	2.2	2.6	0.087	0.102
H	7.6	8.2	0.30	0.32
I	19	-	0.75	-



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