

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



GBPC

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

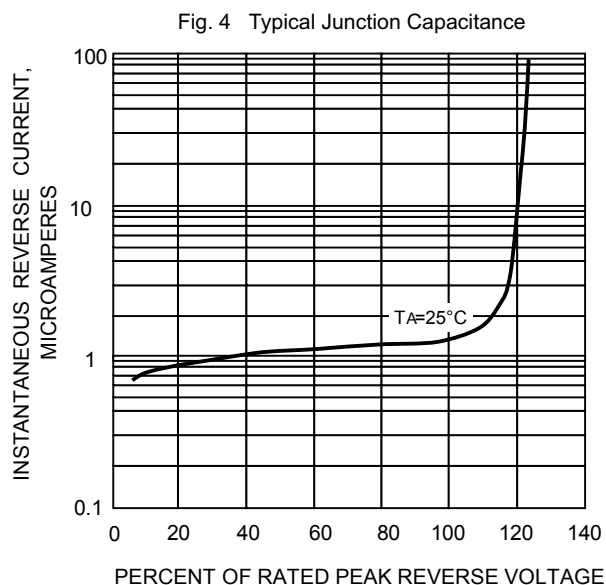
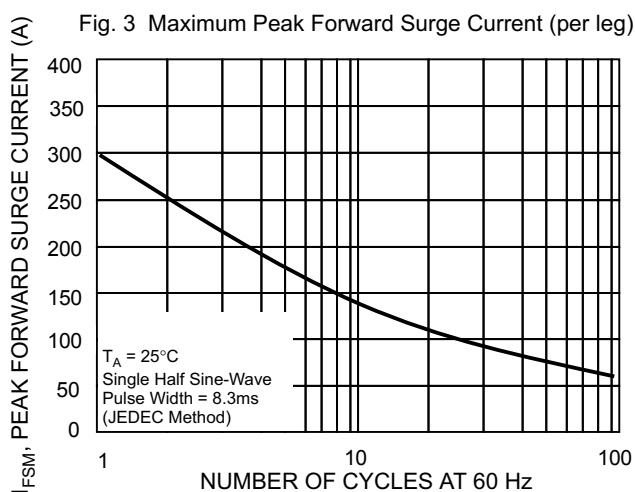
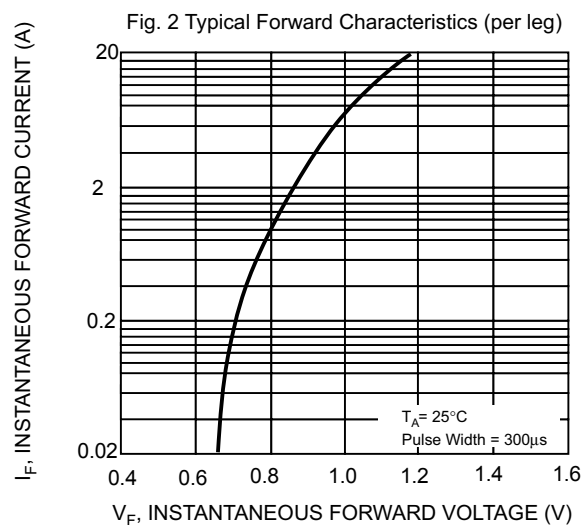
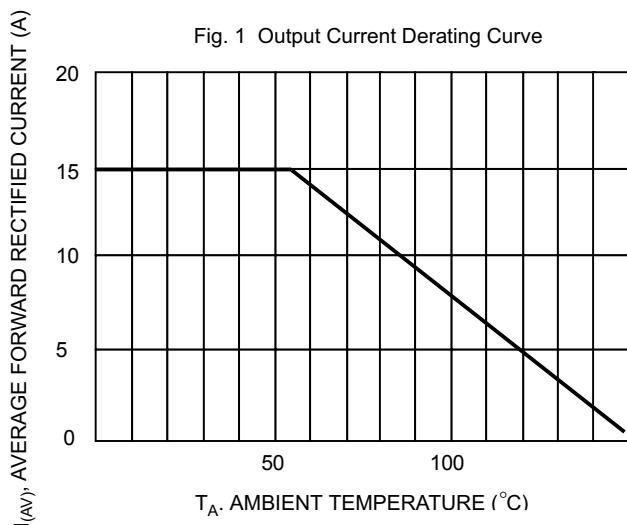
Maximum Ratings and Electrical characteristics

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

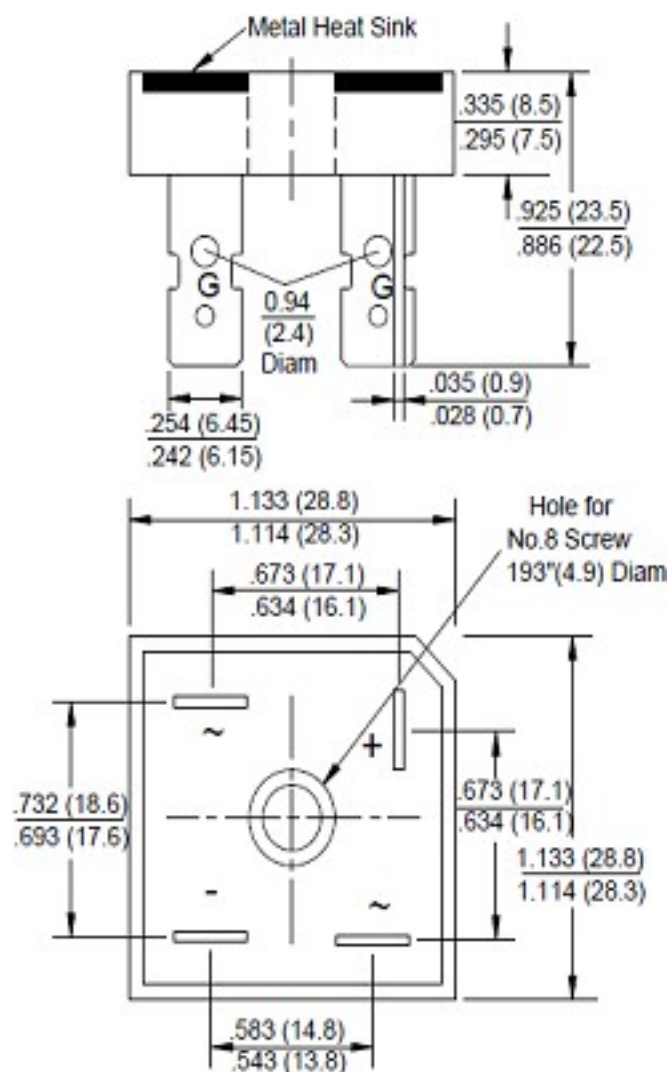
1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

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



Package Outline

GBPC



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
GBPC	BOX	50	EIA-481-1