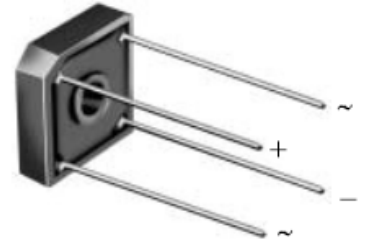


3.0A Glass Passivated Bridge Rectifier

Features

- Glass passivated chip junction
- High case dielectric strength 1500 V_{RMS}
- Typical I_R less than 0.1μA
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds
0.375" (9.5mm) lead length at 5lbs.(2.3kg) tension
- This series is UL recognized under component index, File number E194718
- RoHS compliant



GBPC1



Mechanical Data

Case:	GBPC1, Molded plastic body over passivated junctions
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated leads solderable per MIL-STD-750, Method 2026
Polarity:	As marked on case
Mounting Torque:	8.8 in. – lbs. max.
Weight:	0.1 ounce, 2.8 grams

Maximum Ratings And Electrical Characteristics (T_{amb}=25°C)

Symbols	Parameter	GBPC 1005	GBPC 101	GBPC 102	GBPC 104	GBPC 106	GBPC 108	GBPC 110	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_{F(AV)}	Maximum Average Forward Rectified Current	3.0							A	T _c =60° C Note 1
I_{FSM}	Peak Forward Surge Current	60							A	8.3ms Single Sine-wave Superimposed on Rated Load (JEDEC Method)

3.0A Glass Passivated Bridge Rectifier

GBPC1005 - GBPC110

Symbols	Parameter	GBPC 1005	GBPC 101	GBPC 102	GBPC 104	GBPC 106	GBPC 108	GBPC 110	Unit	Conditions
I ² t	Rating for Fusing (t<8.3ms)	15							A²sec	
V _F	Maximum Instantaneous Forward Voltage Drop per leg	1.0							V	I _F =1.5A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							μA	TA=25°C
		500								TA=125°C
C _J	Typical Junction Capacitance per leg	21							pF	V _R =4V, f=1MHz
R _{θJA}	Typical Thermal Resistance per leg	12							°C/W	Note 2
R _{θJC}		8.0								
T _J ,T _{STG}	Operating Junction and Storage Temperature Range	-55 to +150							°C	

Note: 1. Unit mounted on 4.0 x 4.0 x 0.11" thick (10.5 x 10.5 x 0.3cm) aluminum plate.
 2. Bolt down on heat sink with silicon thermal compound between bridge and mounting surface for maximum heat transfer with #6 screw.

Rating and Characteristic Curves

Fig.1- Derating Curve Output Rectified Current

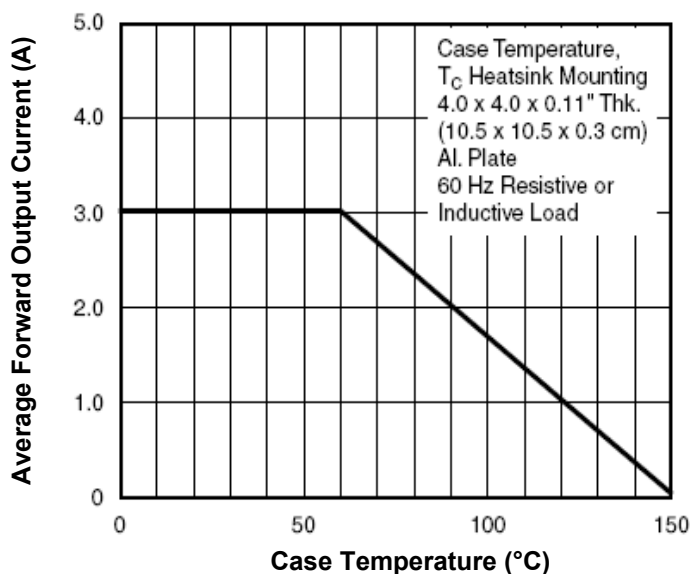
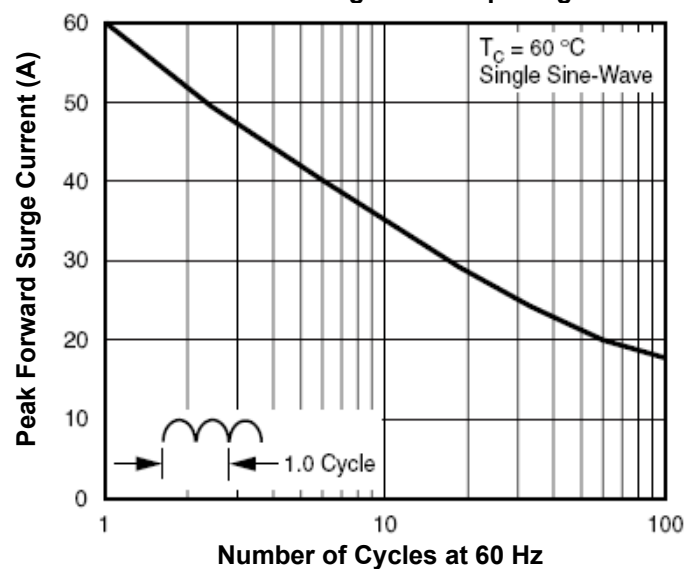


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg



3.0A Glass Passivated Bridge Rectifier

GBPC1005 - GBPC110

Fig.3-Typical Forward Characteristics
per leg

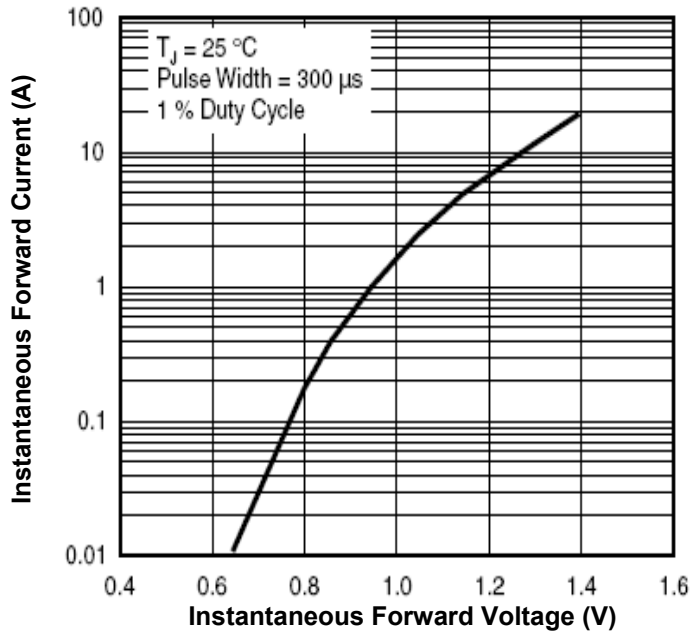


Fig.4-Typical Reverse Leakage Characteristics
per leg

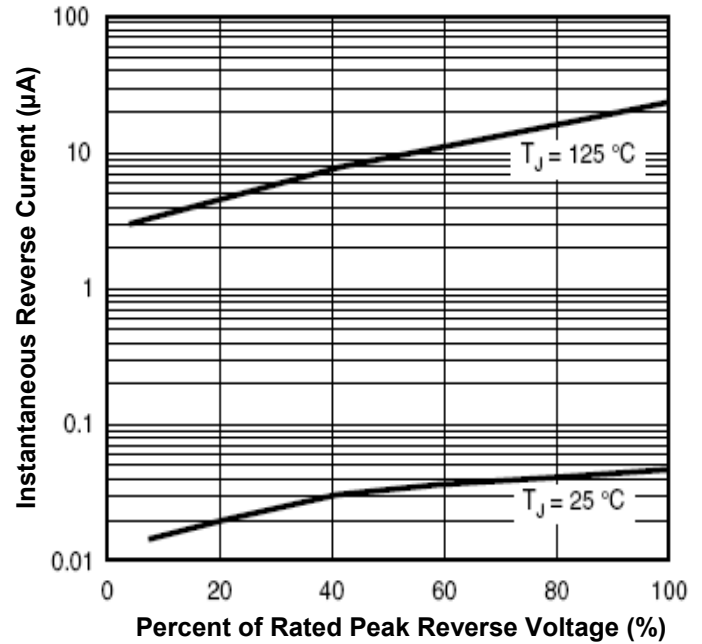
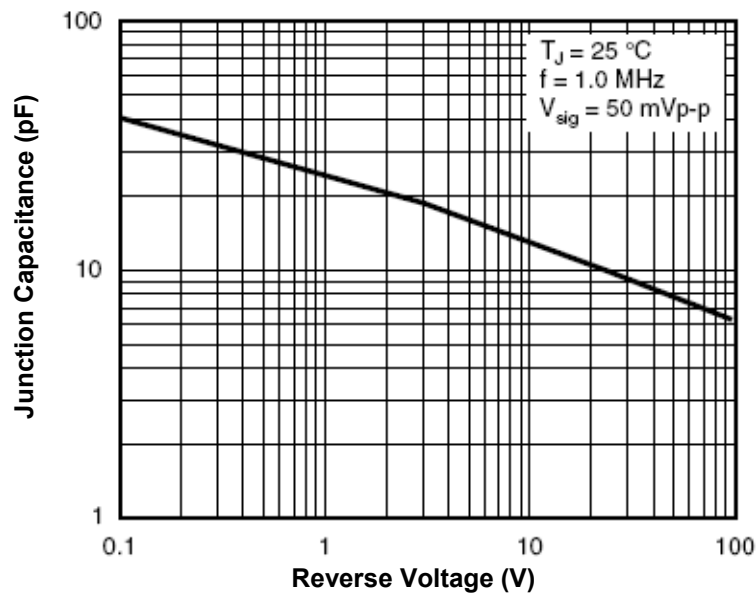


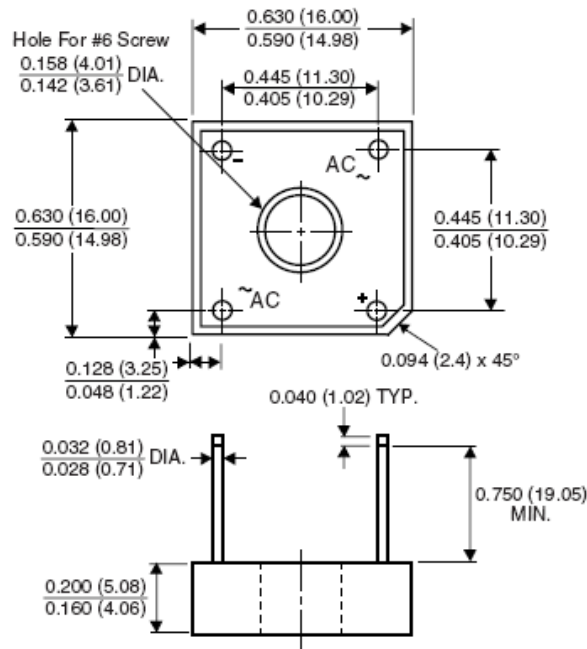
Fig.5-Typical Junction Capacitance
per leg



3.0A Glass Passivated Bridge Rectifier

GBPC1005 - GBPC1110

Dimensions in inch (mm)



How to contact us

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