

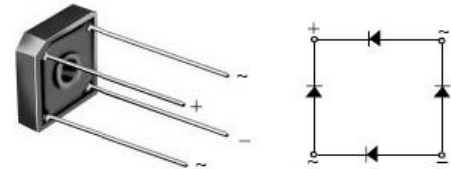


SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER GBPC6005 ~ GBPC610

Single Phase Glass Passivated Bridge Rectifier

Features

- Glass passivated chip junction
- Plastic package has underwriters laboratory
- Flammability classification 90V-0
- High cas dielectric with standing voltage of 1500Vrms
- Typical I_R less than 0.5 μ A
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375" (9.5mm) lead length at 5lbs (2.3kg) tension



Case Style GBPC6

Mechanical Data

Case:	Molded Plastic body over passivated junctions
Polarity	/
Terminals:	Plated leads solderable per MIL-STD-750, Method 2026
Mounting torque	/
Mounting position:	Any (Note 1)
Weight:	0.1 ounce, 2.8 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	GBPC 6005	GBPC 601	GBPC 602	GBPC 604	GBPC 606	GBPC 608	GBPC 610	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Max RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Max DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I(AV)	Max Average Forward Rectified Current	6.0/3.0							A	At TC= 50°C (note2) At TC= 40°C (note 3)
IFSM	Peak Forward Surge Current	175							A	8.3ms single half sine-wave (JEDEC method)
TJ,TSTG	Operating and Storage Temperature Range	-55 to +150							°C	
I2t	Rating for Fusing	1.0							A2s	T<8.3mS

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

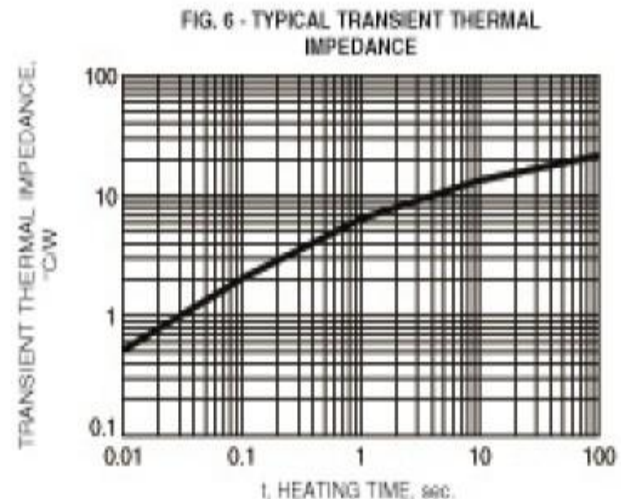
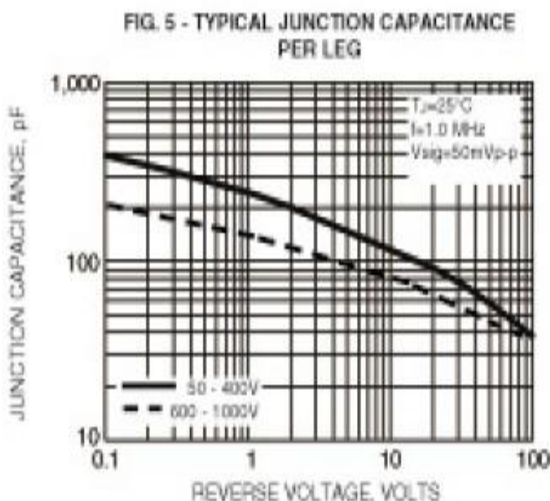
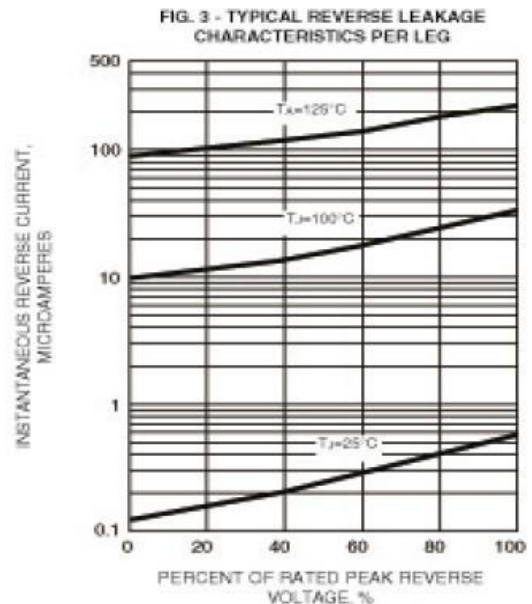
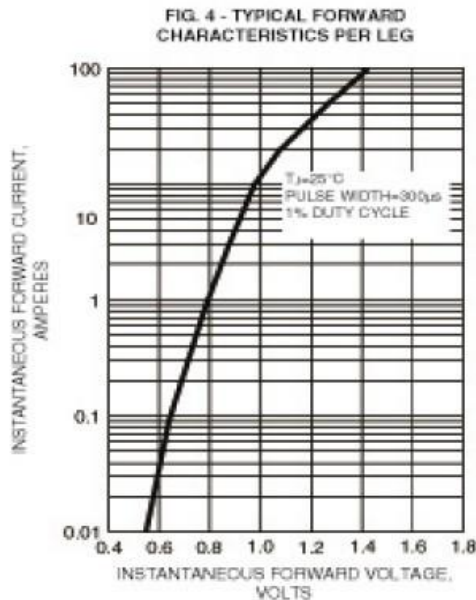
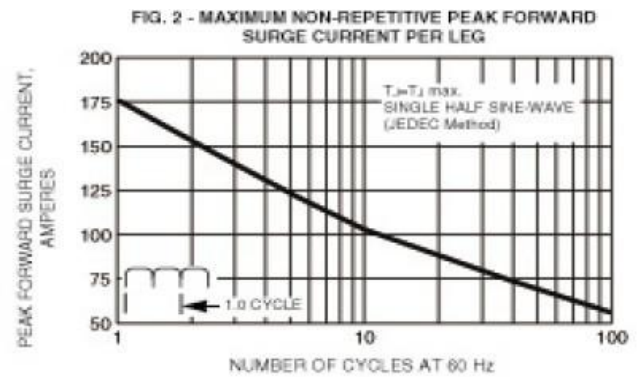
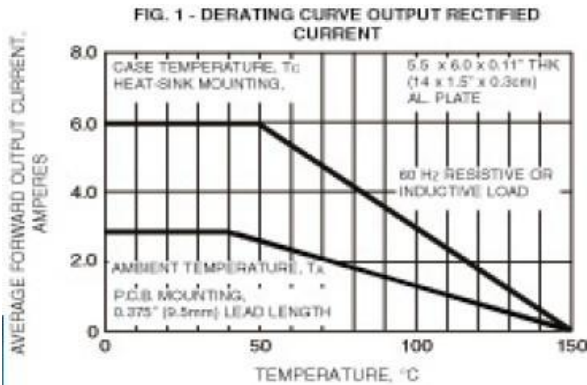
Symbol	Description	GBPC 6005	GBPC 601	GBPC 602	GBPC 604	GBPC 606	GBPC 608	GBPC 610	Unit	Conditions
VF	Max Instantaneous Forward Voltage	1.0							V	Drop per Bridge element 3.0A
IR	Max DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	TA=25℃
		500								Tc=125℃
CJ	Typical Junction Capacitance	186				90			pF	Leg at 4.0V, 1MHz
Rθ-Ja	Typical Thermal Resistance	22							℃/W	Note 1
Rθ-JI		7.3								

Note:

1. Bolt down on heatsink with silicon thermal compound between bridge and mounting surface for maximum heat transfer with #6 screw.
2. Unit mounted on 4.0" x 4.0" x 0.11" thick (10.5 x 10.5 x 0.3cm) Al Plate
3. Unit mounted on P.C.B at 0.375" (9.5mm) lead with 0.5" x 0.5" (12x12mm) copper pads

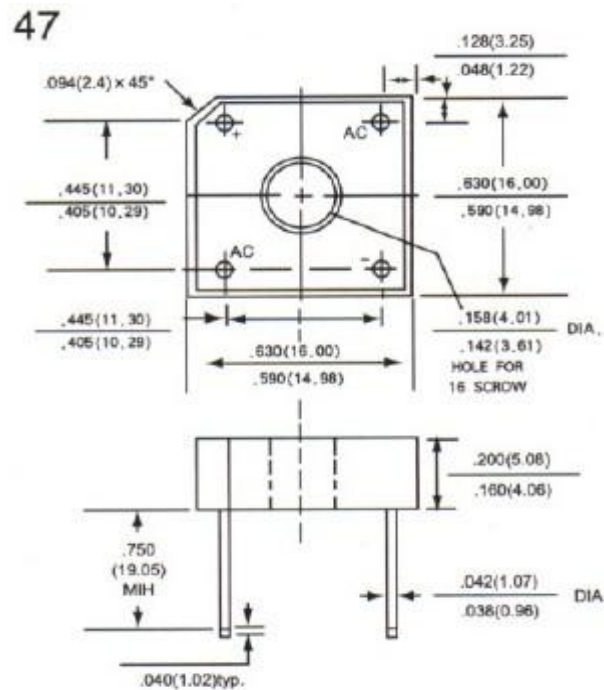
GBPC6005 ~ GBPC610

RATINGS AND CHARACTERISTIC CURVES GBPC6005 THRU GBPC610



GBPC6005 ~ GBPC610

Dimensions in inches (mm)

**GBPC6/8**

Contact us:

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