

# GBP3005 THRUGBP310

GENERAL PURPOSE BRIDGE RECTIFIER
Reverse Voltage:50 to 1000Volts
Forward Current:3.0 Amps

#### **FEATURES**

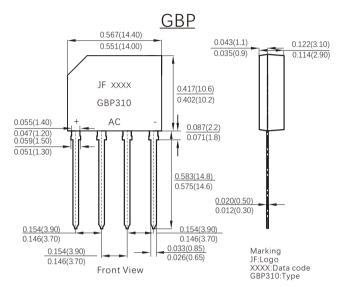
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- · Glass passivated chip junction
- High current capability
- · Low forward voltage drop
- · High temperature soldering guaranteed:260°C/10 seconds at terminals
- · Component in accordance to RoHS 2015/863/EU

### MECHANICAL DATA

- · Case: GBP molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Anv

### TYPICAL APPLICATIONS

Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.



Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

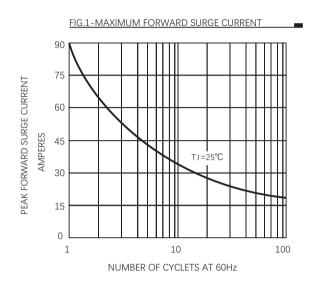
(Rating at 25°C ambient temperature unless otherwise specified. Single phase ,half wave , resistive or inductive load. For capacitive load,derate current by 20%.)

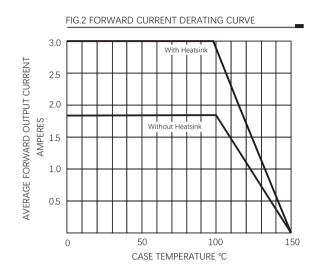
Parameters		Symbol	GBP3005	GBP301	GBP302	GBP304	GBP306	GBP308	GBP310	Units
Maximum Reverse Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		$V_{\text{RMS}}$	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current (See Fig 2)		$I_{F(AV)}$	3.0							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load		I <sub>FSM</sub>	90							Amps
Rating for Fusing (t =8.3ms)		l <sup>2</sup> t	33.62							A <sup>2</sup> S
Maximum Instantaneous Forward Voltage at 1.5A DC		$V_{\scriptscriptstyle F}$	1.0							Volts
Maximum DC Reverse Current at rated DC blocking voltage	T,=25°C	I <sub>R</sub>	5.0							μΑ
	T₁=125°C		100							μΑ
Typical Thermal Resistance Junction And Ambient (Note 2) Junction And Case		R <sub>e)A</sub> R <sub>e)C</sub>	45 5							°C/W
Typical Junction capacitance (Note 1)		C,	27							pF
Operating and Storage Temperature Range		T <sub>J</sub> , T <sub>STG</sub>	-55 to +150							°C

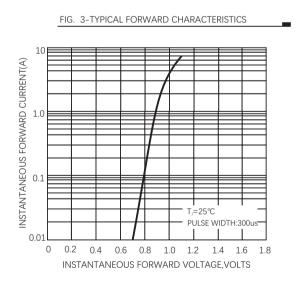
NOTE: 1.Measured at 1MHz and applied reverse voltage of 4.0 Volts. 2 Device mounted on 30mm x 30mm x 1mm Cu plate heatsink

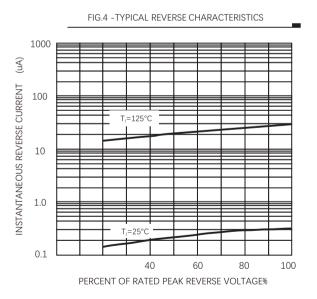


## RATINGS AND CHARACTERISTIC CURVES GBP3005 THRU GBP310











# Friendship Reminder

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