# DC COMPONENTS CO., LTD.GBP2005THRURECTIFIER SPECIALISTSGBP210

# TECHNICAL SPECIFICATIONS OF SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER

### VOLTAGE RANGE - 50 to 1000 Volts

#### FEATURES

- \* Ideal for printed circuit board
- \* Surge overload ratings 60 Amperes
- \* Low forward voltage drop
- \* High Reliability
- \* Glass passivated junction

#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: As marked
- \* Mounting position: Any

Maximum Recurrent Peak Reverse Voltage

superimposed on rated load (JEDEC Method) Maximum Forward Voltage Drop per element at 2.0A DC

Maximum DC Reverse Current at Rated

Operating and Storage Temperature Range

DC Blocking Voltage per element

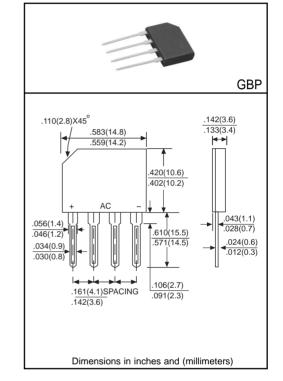
Maximum Average Forward Rectified Output Current at TA = 50°C

Peak Forward Surge Current 8.3 ms single half sine-wave

Maximum RMS Bridge Input Voltage

Maximum DC Blocking Voltage

\* Weight: 1.26 grams



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

REV-3,MAR,2017	
112 9-3,100/017,2017	

GBP2005

50

35

50

SYMBOL

Vrrm

VRMS

Vpc

lo

IFSM

VF

IR

TJ, TSTG

@TA = 25°C

 $@T_{A} = 100^{\circ}C$ 

GBP201

100

70

100

GBP202

200

140

200

GBP204

400

280

400

2.0

60

1.1

10

1000

-55 to +150

GBP206

600

420

600

GBP208

800

560

800

GBP210

1000

700

1000

UNITS

Volts

Volts

Volts

Amps

Amps

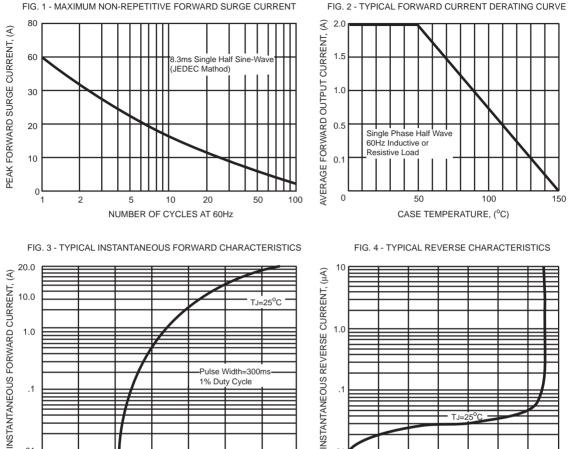
Volts

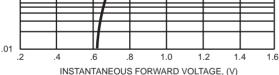
μAmps

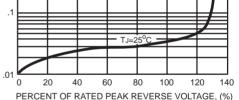
<sup>0</sup>C

#### CURRENT - 2.0 Amperes

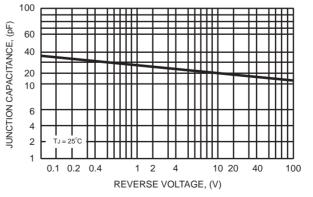
#### **RATING AND CHARACTERISTIC CURVES (GBP2005 THRU GBP210)**











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