



### GBU10005 THRU GBU1010

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

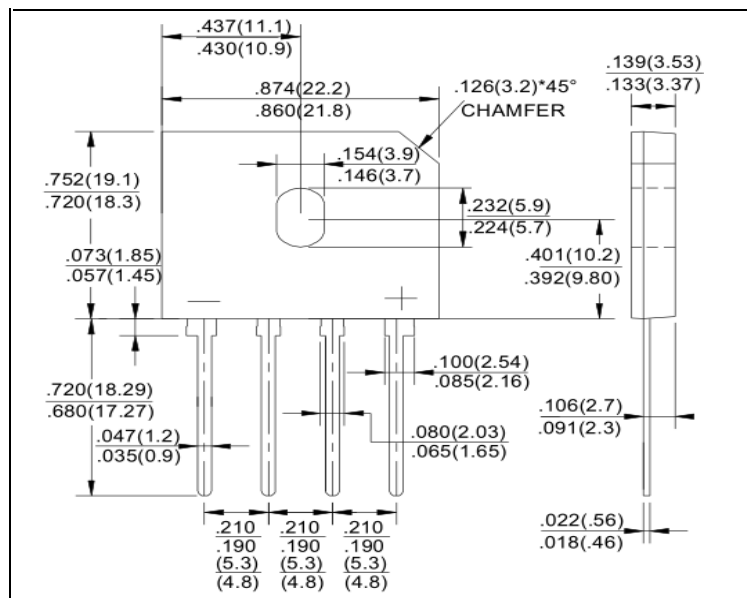
10 Ampere

### Features

- UL recognition, file #E230084
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

### Typical Applications

- General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.
- Weight: 0.138 ounces , 3.9grams



### Mechanical Data

- Package: GBU
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

Dimensions in inches and (millimeters)

Package : GBU

### ■Maximum Ratings (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
Device marking code			GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz half sine wave, R-load	I <sub>O</sub>	A	With heatsink T <sub>c</sub> =80°C						
			Without heatsink T <sub>a</sub> =25°C						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, T <sub>j</sub> =25°C	IFSM	A	175						
Current squared time @1ms≤t≤8.3ms T <sub>j</sub> =25°C, Rating of per diode	I <sup>2</sup> t	A <sup>2</sup> S	127						
Storage temperature	T <sub>stg</sub>	°C	-55 ~+150						
Junction temperature	T <sub>j</sub>	°C	-55 ~+150						
Dielectric strength @ terminals to case, AC 1 minute	V <sub>dis</sub>	KV	2.5						
Mounting torque @recommend torque: 5kg·cm	T <sub>or</sub>	kg·cm	8						

### ■Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	IFM=5.0A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>RRM</sub>	μA	VRM=VRRM	5						



#### ■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
Thermal Resistance	Between junction and ambient, Without heatsink	RθJ-A	°C/W	25.0						
	Between junction and case, With heatsink	RθJ-C		2.3						

#### ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU10005 THRU GBU1010	B1	Approximate 3.96	20	1000	2000	TUBE

#### ■ Characteristics (Typical)

