Suntan_® Su_®

GBU15005 THRU GBU1510

SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 15 Ampere

FEATURES

- ♦Rating to 1000V PRV
- ◆ Ideal for printed circuit board
- \blacklozenge Reliable low cost construction utilizing molded plastic

Technique

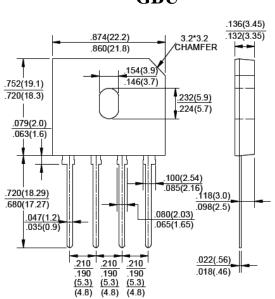
◆The plastic material has UL flammability

classification 94V-0

♦ Electrically isolated base-1500 Volts

Mechanical Data

- Polarity : As marked on Body
- ♦ Weight : 0.15 ounces, 4.0 grams
- Mounting position : Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

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PARAMETER	SYMBOL	15005	1501	1502	1504	1506	1508	1510	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	v
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	v
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	v
Maximum Average Forward (with heatsink Note 2) Rectified Current, @ Tc=100°C(without heatsink)	I(AV)	15							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	240							А
Maximum Forward Voltage at 7.5A DC	V _F	1.1							v
Maximum DC Reverse Current @ $T_J = 25^{\circ}C$	Ir	5.0 500							μΑ
at Rated DC blocking voltage $@$ T _J = 125 °C	IR								
I^2 t Rating for fusing (t < 8.3ms)	I ² t	166							A ² S
Typical Junction Capacitance per element (Note 1)	C _J	50							pF
Typical Thermal Resistance (Note 2)	Røjc	2.0							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to +150							°C
		•							•

Note: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 200mm x 200mm x 5mm Al Plate Heatsink.

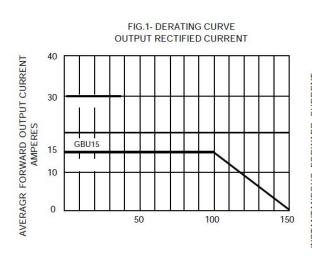
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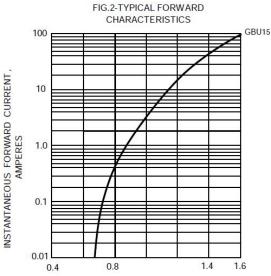
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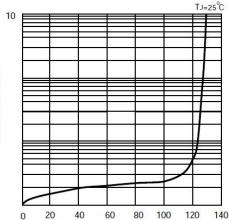
RATING AND CHARACTERISTIC CURVES GBU15005 THRU GBU1510





INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE

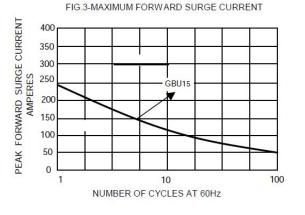
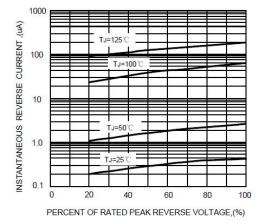


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

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MICROAMPERES