

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBU15A THRU GBU15M

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 15 Amperes

FEATURES

- * High forward surge capability
- * High current capability
- * Low forward voltage drop
- * Glass passivated junction

MECHANICAL DATA

* Case: Molded plastic

* Epoxy: UL 94-V0 rated flame retardant

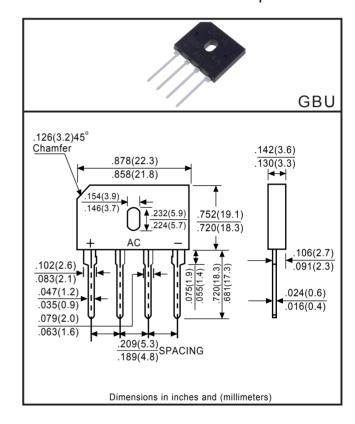
* Lead: MIL-STD-202E, Method 208 guaranteed * Polarity: Symbols molded or marked on body

* Mounting position: Any

* Weight: 6.1 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



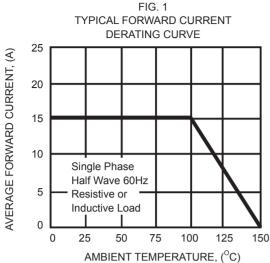
	SYMBOL	GBU15A	GBU15B	GBU15D	GBU15G	GBU15J	GBU15K	GBU15M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward (with heatsiink Note 2) Rectified Current at $T_A = 100^{\circ}C$ (without heatsiink)	lo	15 3.2							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	240							Amps
Maximum Instantaneous Forward Voltage at 7.5A DC	VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage $@TJ = 25^{\circ}C$ $@TJ = 125^{\circ}C$	- IR	10 100							μAmps
Typical Junction Capacitance (Note 1)	Сл	70						pF	
I ² t Rating for Fusing (t<8.3mS)	I ² t	239						A ² s	
Typical Thermal Resistance to case with heatsink (Note 2)	R _θ JC	2.0							°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150							°C

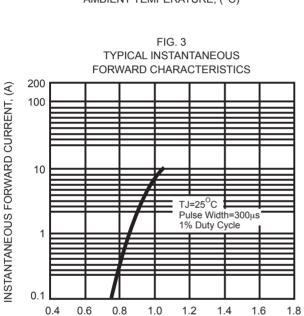
Note 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

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^{2.} Device mounted on 50mm*50mm*1.6mm Cu plate heatsink.

RATING AND CHARACTERISTIC CURVES (GBU15A THRU GBU15M)





1.0

1.2

INSTANTANEOUS FORWARD VOLTAGE, (V)

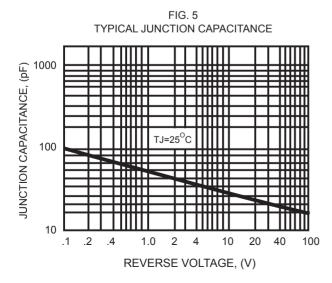
1.4

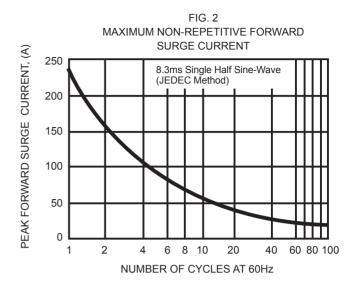
1.6

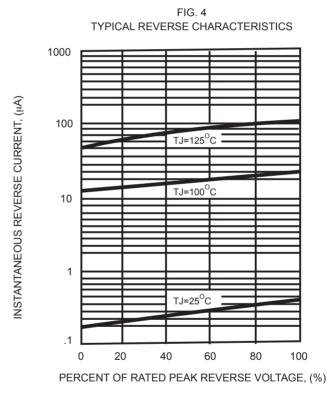
1.8

0.8

0.4







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