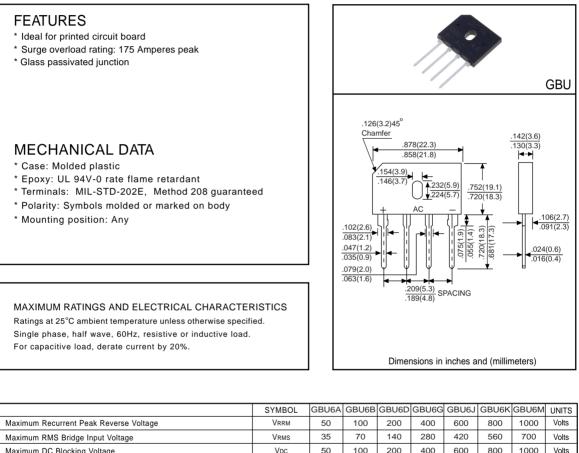
DC COMPONENTS CO., LTD.GBU6ATHRURECTIFIER SPECIALISTSGBU6M

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 6.0 Amperes



Maximum RMS Bridge Input 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 heatsink Note 2) Rectified Current @Tc=100°C (without heatsink)		l (AV)	6.0 2.8							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150							Amps
Maximum Forward Voltage Drop per element at 3.0A DC		VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@TJ = 25°C	IR	10 500							– μAmps
	@TJ = 125°C									
I ² t Rating for Fusing (t<8.3ms)		l ² t	127						A ² Sec	
Typical Junction Capacitance (Note1)		CJ	50							pF
Typical Thermal Resistance (Note 2)		RθJC	2.2							°C/W
Operating Temperature Range		TJ	-55 to +150							°C
Storage Temperature Range		Tstg	-55 to +150							°C

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

2. Thermal Resistance from Junction to Case per element Unit mounted on 50x50x1.6mm Cu plate heat-sink.

RATING AND CHARACTERISTIC CURVES (GBU6A THRU GBU6M)

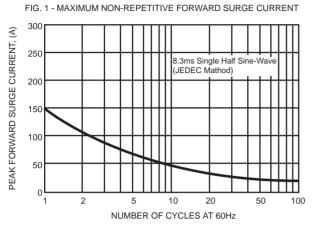


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

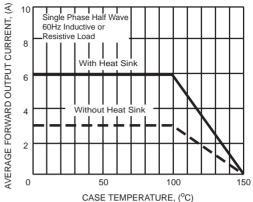
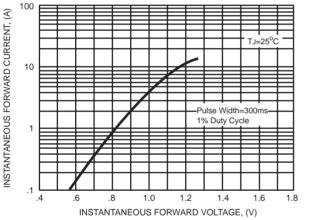


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





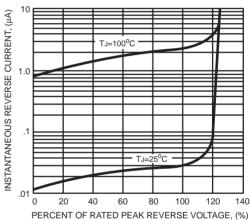
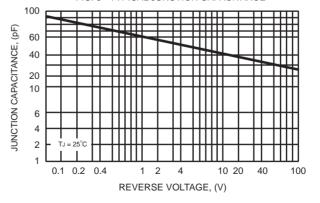


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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