DC COMPONENTS CO., LTD.GBU8ATHRURECTIFIER SPECIALISTSGBU8M

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 8.0 Amperes



Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
5	(with heatsink Note 2) (without heatsink)		8.0 3.2							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	200							Amps
Maximum Forward Voltage Drop per element at 4.0A DC		VF	1.0							Volts
Maximum DC Reverse Current at Rated	@TJ = 25°C	IR	10							- μAmps
DC Blocking Voltage per element	@Tj = 125°C	IX	500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	166							A ² Sec
Typical Junction Capacitance (Note1)		CJ	60							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

 $\mathsf{NOTES}: \mathsf{1.Measured}$ 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 (GBU8A THRU GBU8M)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE





FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



FIG. 4 - TYPICAL REVERSE CHARACTERISTICS







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