

VI. Bridge Rectifier

4.0A Glass Passivated Bridge Rectifier

GBU4A~GBU4M

(Package: GBU)

<p>FEATURES</p> <ul style="list-style-type: none"> • Surge overload rating –150 amperes peak • Ideal for printed circuit board • Reliable low cost construction utilizing molded plastic technique • Plastic material has Underwriters Laboratory Flammability Classification 94V-0 • Mounting position: Any <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case : Molded plastic body • Polarity : Polarity symbols marked on case • Handling Precautions : None • Weight : 4.26 grams 	<p>Case: GBU Dimensions in inches and (millimetres)</p>
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Ratings & Electrical Characteristics

Characteristics	Symbol	GBU 4A	GBU 4B	GBU 4D	GBU 4G	GBU 4J	GBU 4K	GBU 4M	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current (with heatsink, Note 2) (without heatsink) @ $T_c = 100$	I_o	4.0 2.4							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							Amps
Maximum forward voltage at 4.0A DC	V_F	1.1							Volts
Maximum DC reverse current @ $T_j=25$ at rated DC blocking voltage @ $T_j=125$	I_R	10.0 500							μA
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	93							A^2s
Typical junction capacitance per element (Note 1)	C_j	45							PF
Typical thermal resistance (Note 2)	R_{th-JC}	2.2							/ W
Operating temperature range	T_j	-55 to +150							
Storage temperature range	T_{stg}	-55 to +150							

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts D.C.
2. Device mounted on 50mm* 50mm* 1.6mm Cu plate heatsink

Ratings and Characteristic Curves of GBU4A~GBU4M

