



GBU4005 THRU GBU410

SILICON BRIDGE RECTIFIERS

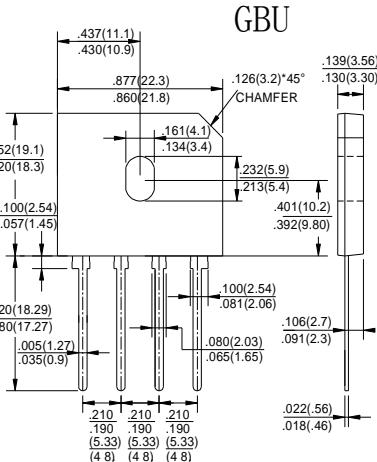
Reverse Voltage - 50 to 1000 Volts Forward Current - 4.0 Amperes

FEATURES

Ideal for printed circuit boards
Reliable low cost construction technique
results in inexpensive product
High temperature soldering guaranteed:
260°C/10 seconds/0.375" (9.5mm) lead length
at 5 lbs.,(2.3kg) tension

MECHANICAL DATA

Case: Molded plastic
Lead: Solder plated
Polarity: As marked



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 current derate by 20%.

	SYMBOLS	GBU4005	GBU401	GBU402	GBU404	GBU406	GBU408	GBU410	UNITS
Maximum repetitive 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 (with heatsink Note 2) Rectified Current @ T _c =100°C (without heatsink)	I _(AV)				4.0				Amps
					2.4				
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				125				Amps
Maximum instantaneous forward voltage at 2.0A	V _F				0.95				Volts
Maximum instantaneous forward voltage at 4.0A	V _F				1.05				Volts
Maximum DC reverse current at T _A =25°C rated DC blocking voltage per leg T _A =125°C	I _R			5.0					µA
				500					
Typical Thermal Resistance (Note 2)	R _{θJC}			2.2					°C/W
Typical Junction Capacitance Per Element (Note 1)	C _J			45					pF
I ² t Rating for Fusing (t<8.3ms)	I ² t			64.8					A ² s
Operating temperature range	T _J			-55 to +150					°C
storage temperature range	T _{STG}			-55 to +150					°C

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

2. Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.



RATINGS AND CHARACTERISTIC CURVES GBU4005 THRU GBU410

Fig. 1 - Forward Current Derating Curve

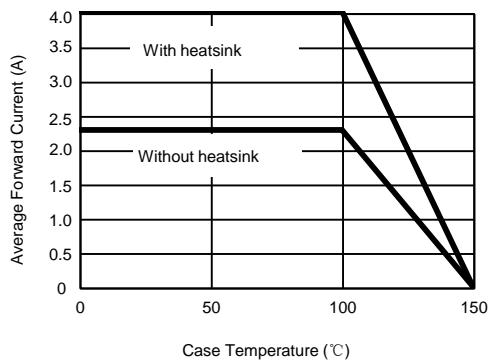


Fig. 2 - Maximum Non-Repetitive Surge Current

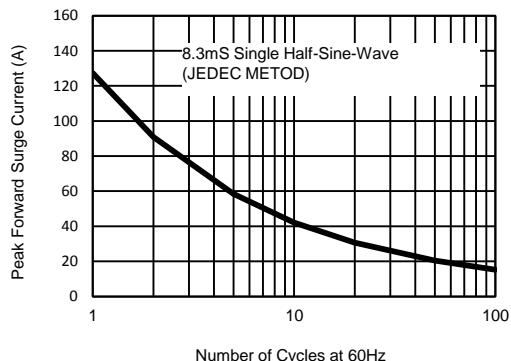


Fig. 3 - Typical Reverse Characteristics

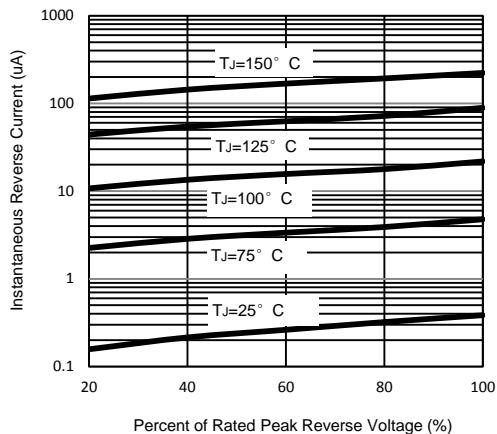


Fig. 4 - Typical Forward Characteristics

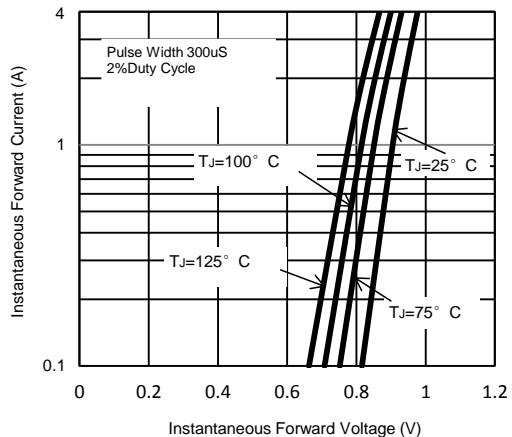
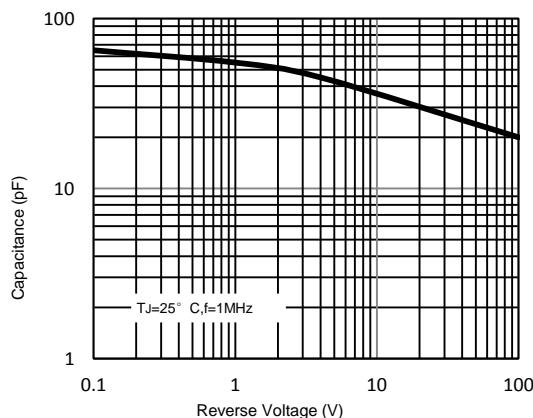


Fig. 5 - Typical Junction Capacitance



单击下面可查看定价，库存，交付和生命周期等信息

[>>ZG\(中鑫半导体\)](#)