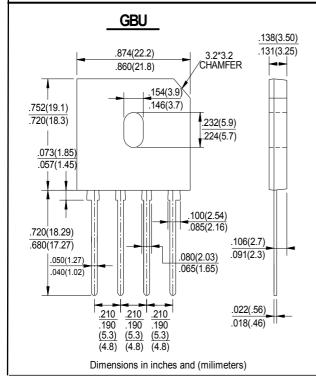
GBU4005 THRU GB410



SINGLE PHASE4.0AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS



FEATURES

- Glass passivated chip junction
- Reliable low cost construction utilizing molded plastic technique
- Ideal for printed circuit board
- Low reverse leakage current
- Low forward voltage drop
- High surge current capabiliy

MECHANICAL DATA

- Case:Molded plastic, GBU
- Terminals: Terminals: Leads solderable per MIL-STD-202 method 208 guaranteed
- Epoxy: UL 94V-0 rate flame retardant
- Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

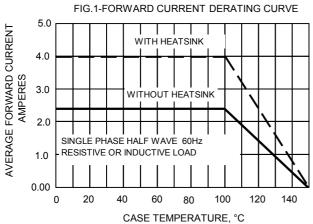
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

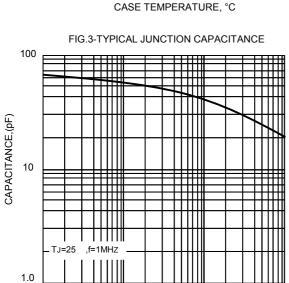
Parameter	Symbols	GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current with Heatsink at T_C = 100 $^{\circ}$ C	I _(AV)	4.0 2.4							Α
Peak Forward Surge Current, 8.3 ms Single Half-Sine -Wave superimposed on rated load (JEDEC Method)	I _{FSM}	120							А
Maximum Forward Voltage at 2.0 A DC and 25 °C	V _F	1.0							V
Maximum Reverse Current at T _A = 25 °C at Rated DC Blocking Voltage T _A = 125 °C	I _R	10.0 500							μA
Typical Junction Capacitance 1)	Сл	45							pF
Typical Thermal Resistance 2)	$R_{\theta JC}$	2.2							°C/W
Operating and Storage Temperature Range	T_J,T_S	-55 to +150							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 VDC.

²⁾ Thermal resistance from junction to case with device mounted on 300 mm X 300 mm X 1.6 mm Cu plate heatsink.







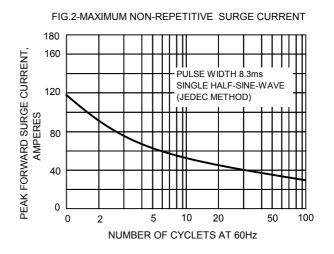
1.0

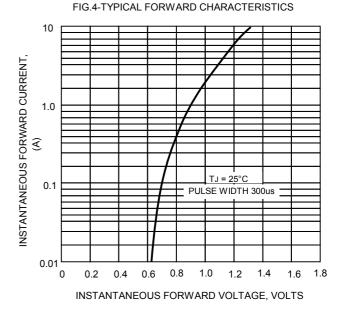
0.1

10.0

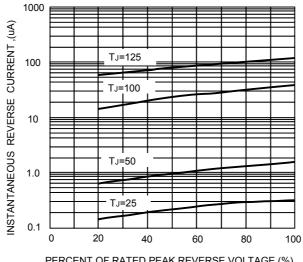
REVERSE VOLTAGE, (VOLTS)

100









PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)