PINGWEI ENTERPRISE

GBU4005 THRU GBU410

SINGLE PHASE4.0AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS

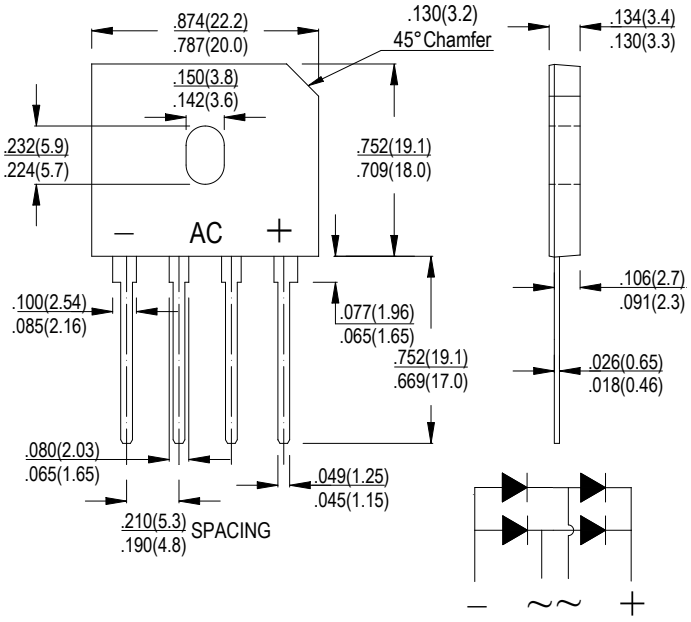
FEATURE

. UL Recognized File # E338195
. Ideal for printed circuit board
. Glass passivated chip junctions
. High case dielectric strength
. Low leakage
. Low forward voltage
. High surge current capability
. High temperature soldering guaranteed:
260°C/10seconds/.375″(9.5mm) lead lengths.

MECHANICAL DATA

. Case: Molded plastic body
. Epoxy: UL 94V-0 rate flame retardant
. Terminals: Pure tin plated, Lead free. Leads solderable per MIL-STD-750, Method 2026.
. Polarity: Symbols molded or marked on body
. Mounting position: Any
. Weight:8.0grams

GBU



Dimensions in millimeters

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, derate current by 20%

Type Number	SYMBOL	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 Output Current at T_C=100°C	$I_{F(AV)}$	4.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	120							A
Maximum Forward Voltage Drop per element at 4.0A DC	V_F	1.1							V
Maximum DC Reverse Current at rated DC blocking voltage @T_A =25°C	I_R	10.0							μA
Maximum DC Reverse Current at rated DC blocking voltage @T_A =125°C	I_R	500.0							μA
I^2t Rating for Fusing (t < 8.3ms)	I^2t	59.7							A^2s
Typical Junction Capacitance (Note 1)	C_J	40							pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	2.2							°C/W
Storage Temperature	T_{STG}	-55 to +150							°C
Operating Junction Temperature	T_J	-55 to +150							°C

Note:
1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2.Thermal Resistance from Junction to Case Mounted on P.C.B with0.47×0.47”(12×12mm) Copper Pads.