

2GBP005 - 2GBP10

PRV : 50 - 1000 Volts

Io : 2.0 Amperes

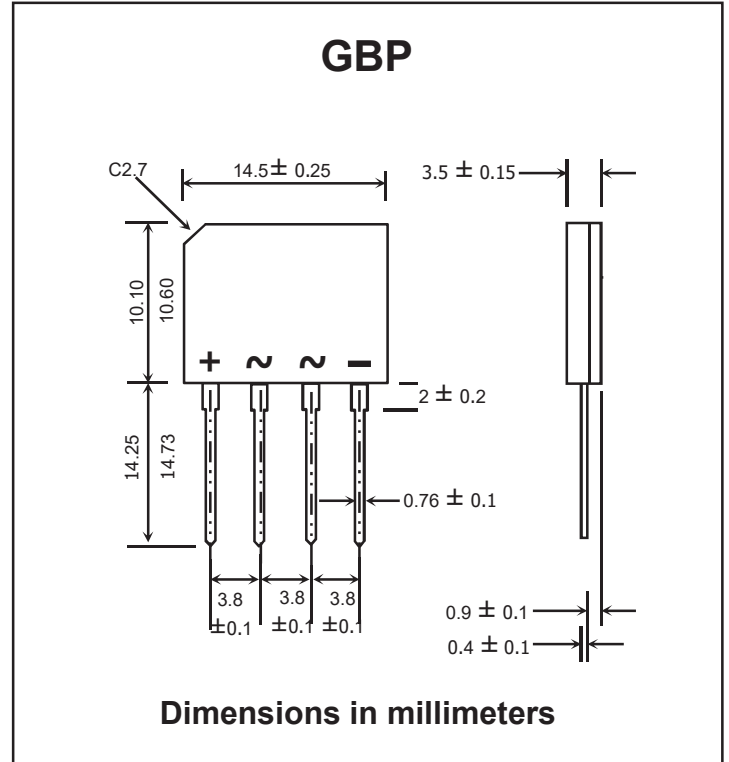
FEATURES :

- * High case dielectric strength
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Ideal for printed circuit board
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Terminals : Plated lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight : 1.4 grams

SILICON BRIDGE RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATING	SYMBOL	2GBP 005	2GBP 01	2GBP 02	2GBP 04	2GBP 06	2GBP 08	2GBP 10	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Current 60Hz sine wave R-Load With heatsink Tc = 130°C Without heatsink Tc = 70°C	IF(AV)	2.0							A
Peak Forward Surge Current, Single sine wave Superimposed on rated load (JEDEC Method)	IFSM	50							A
Rating for fusing (t < 8.3 ms.)	I ² t	10.4							A ² S
Maximum Instantaneous Forward Voltage drop at IF = 1.0 A, Tj = 25°C	VF	1.05							V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage per element Ta = 125 °C	IR	10							µA
	IR(H)	500							µA
Typical Thermal Resistance (Note 1)	RθJA	50							°C/W
Operating Junction Temperature Range	TJ	- 55 to + 160							°C
Storage Temperature Range	TSTG	- 55 to + 160							°C

Notes :

1) Thermal resistance from Junction to Ambient with units mounted on a 0.47" X 0.47" (12mm X 12mm) Cu. Pads.

RATING AND CHARACTERISTIC CURVES (2GBP005 - 2GBP10)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

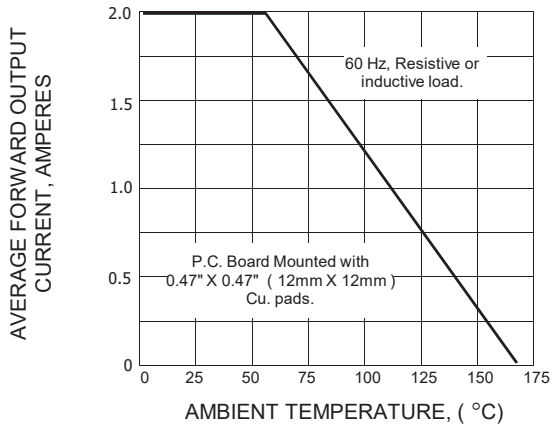


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

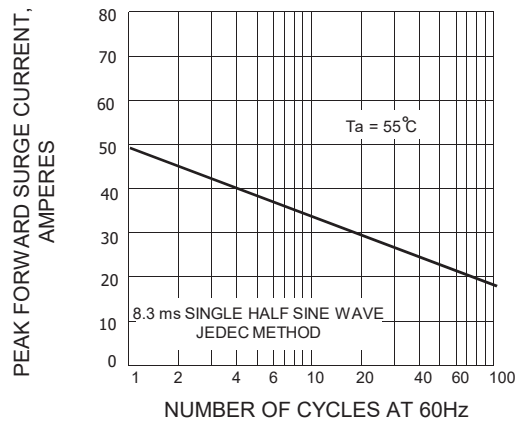


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

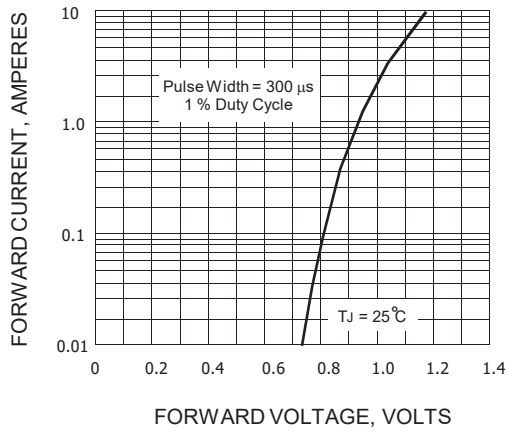


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

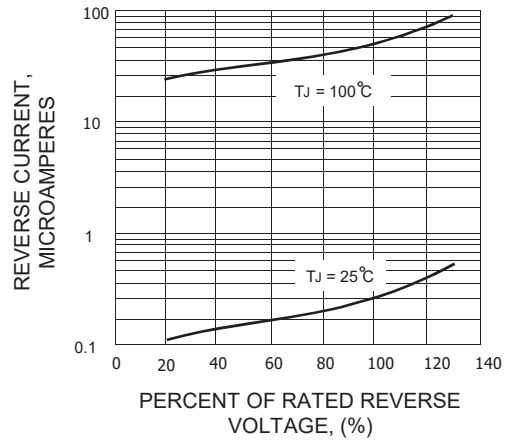


FIG.5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

