



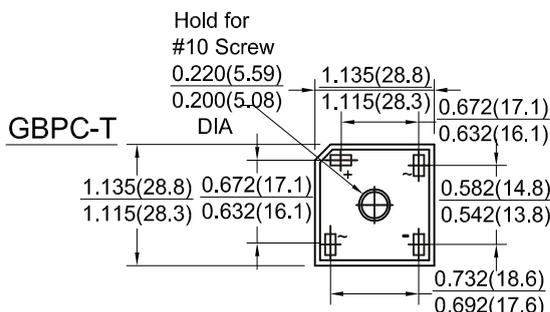
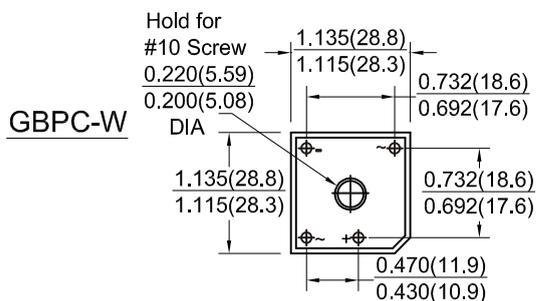
SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES:

- Integrally molded heat sink provide low thermal resistance for max. heat dissipation
- High surge current capability
- Void-free junction soldering by using vacuum soldering
- Universal 3-way terminals : snap on, wire-around, or P.C. board mounting
- High temperature soldering guaranteed : 260° C/10 seconds at 5lbs. (2.3kg)tension
- AI plate plastic case

MECHANICAL DATA

Case : Molded plastic with heat-sink integrally mounted in the bridge encapsulation
 Terminals : Either nickel plated 0.25". Faston lugs or copper leads 0.040"diameter sufficient letter"W" added to indicate leads
 Polarity : Polarity symbols marked on body
 Mounting Position : Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface
 Weight : 15 grams or 0.53 ounce
 Mounting Torque : 20 in.-lb. max



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

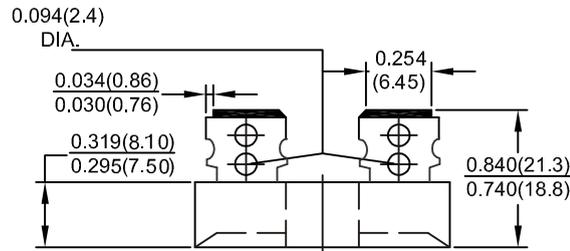
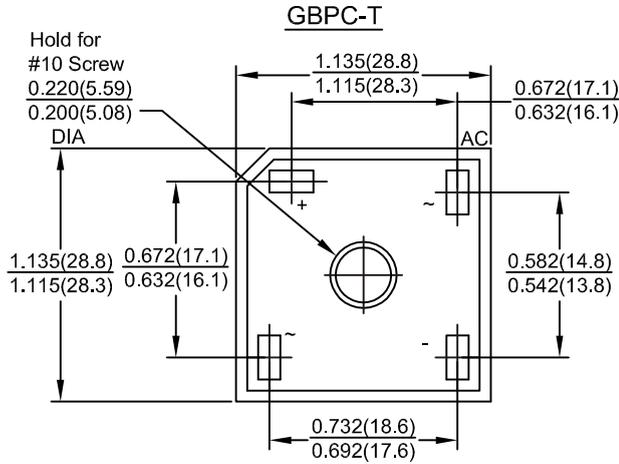
Rating at 25° C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

Characteristic	Symbol Marking	GBPC									Units
		15005 T/W GBPC 15005	1501 T/W GBPC 1501	1502 T/W GBPC 1502	1504 T/W GBPC 1504	1506 T/W GBPC 1506	1508 T/W GBPC 1508	1510 T/W GBPC 1510			
Maximum recurrent peak reverse voltage	VRRM	50	100	200	400	600	800	1000			Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700			Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000			Volts
Maximum average forward rectified current at TC=55 °C	IO				15.0						Amps
Peak forward surge current, single sine-wave on rated load(JEDEC Method)	IFSM				300.0						Amps
Rating for fusing(1ms<tm<8.3ms)	I ² t				375.0						A ² sec
Maximum instantaneous forward voltage drop per leg at 7.50 A	VF				1.1						Volts
Maximum DC reverse current at rated DC blocking voltage per leg Ta=25 °C Ta=125 °C	IR				5.0 500						μ A
RMS isolated voltage from case to leads	VISO				2500						Volts
Typical junction capacitance	Cj				300						pF
Typical thermal resistance	Rth-JC				1.9						° C/W
Operating junction and storage temperature range	Tj, Tstg				-55 to +150						° C

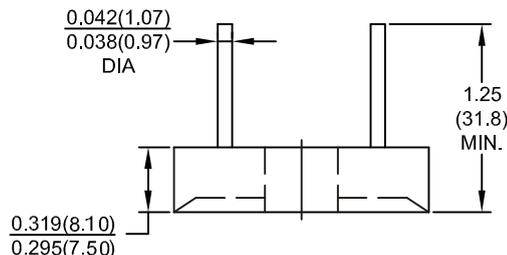
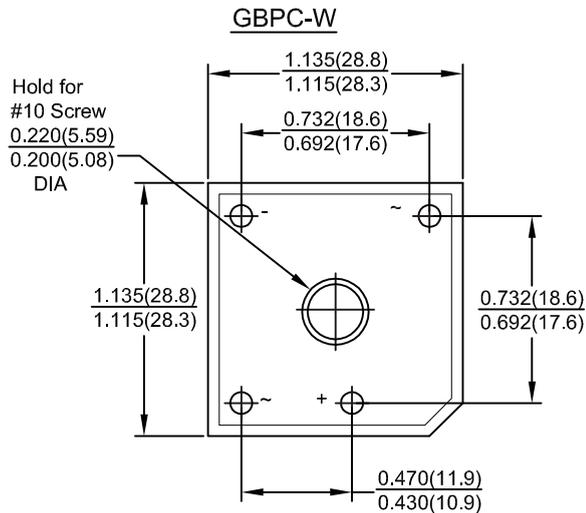
Notes : 1.Measured 1MHz and applied reverse voltage of 4.0V DC



RATING AND CHARACTERISTIC CURVES



Dimensions in Inches and (millimeters)



Dimensions in Inches and (millimeters)



RATINGS AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM OUTPUT RECTIFIED CURRENT

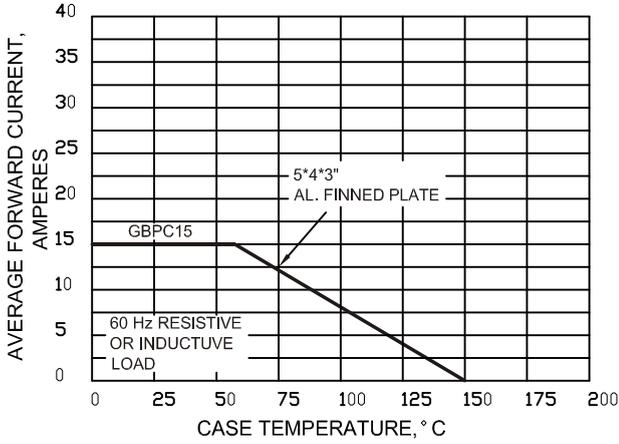


FIG.2-MAXIMUM OUTPUT RECTIFIED CURRENT

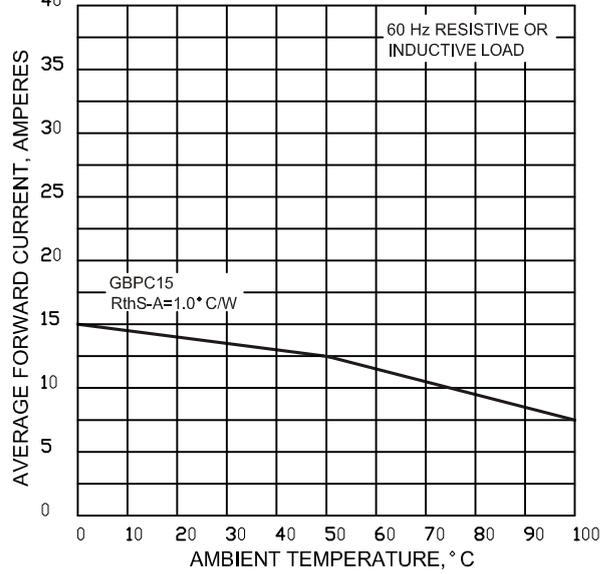


FIG.3-MAXIMUM POWER DISSIPATION

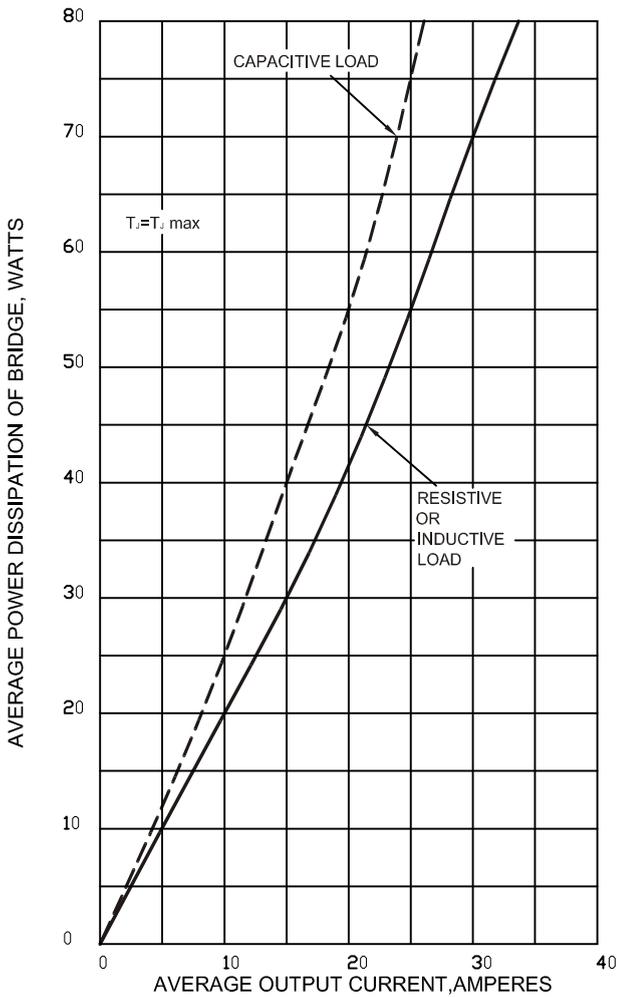
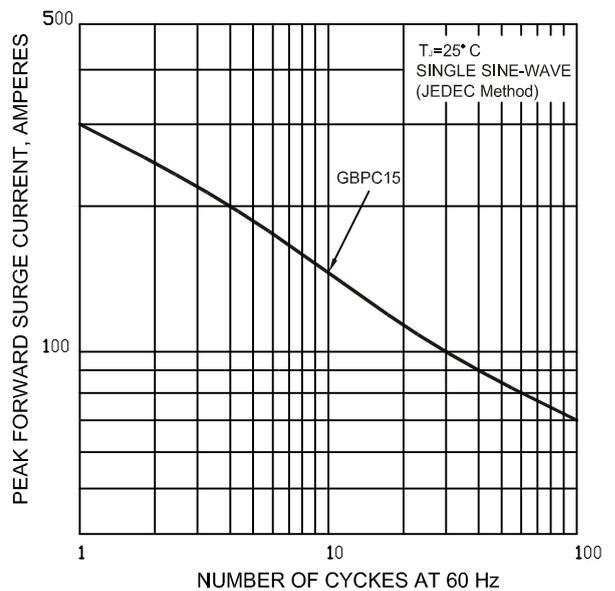


FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG





RATING AND CHARACTERISTIC CURVES

FIG.5-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

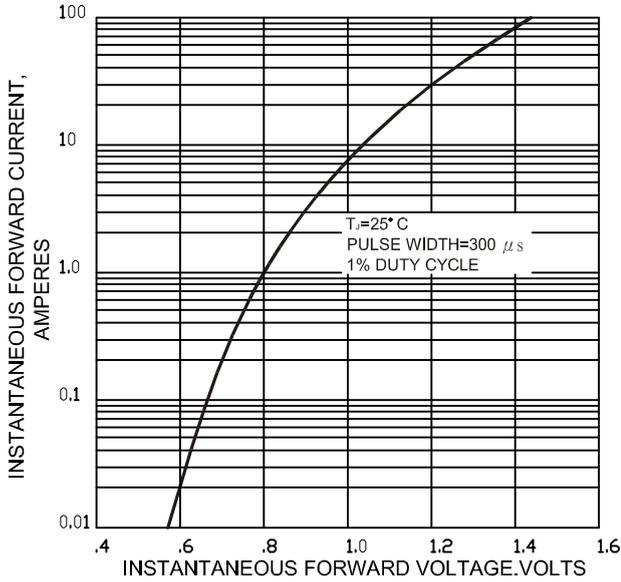


FIG.6-TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

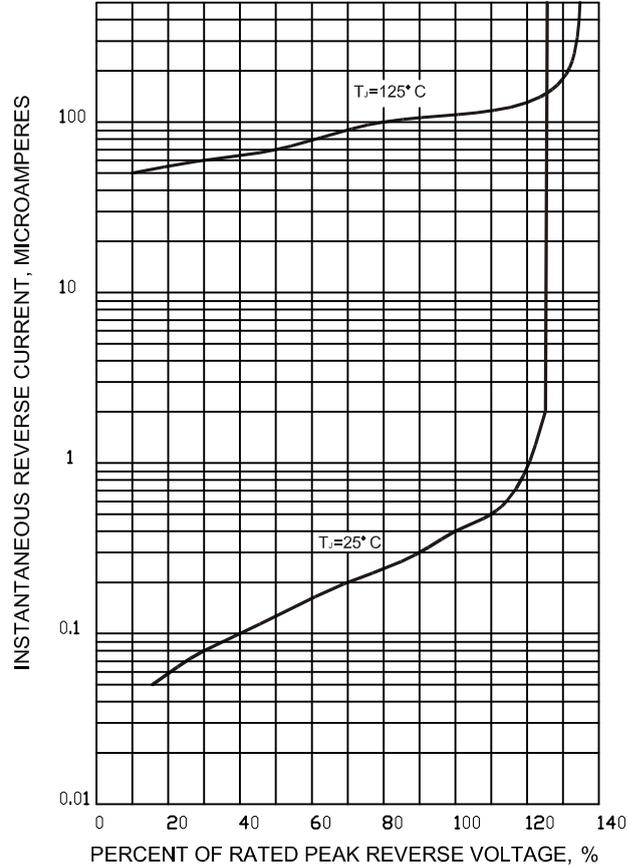


FIG.7-TYPICAL JUNCTION CAPACITANCE PER LEG

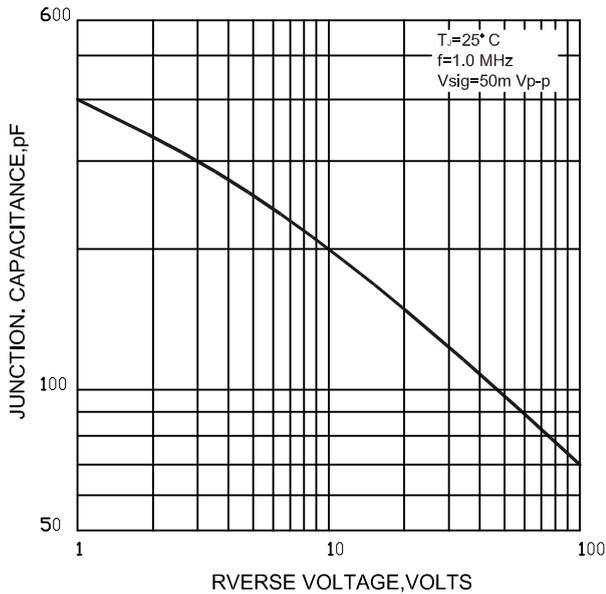
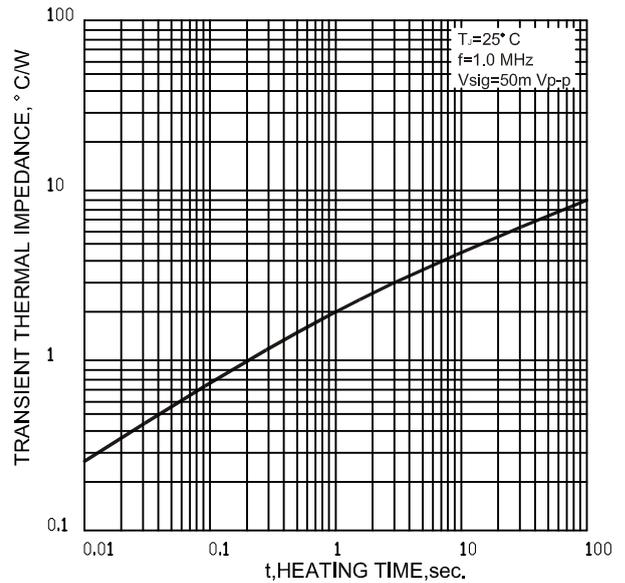


FIG.8-TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG





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