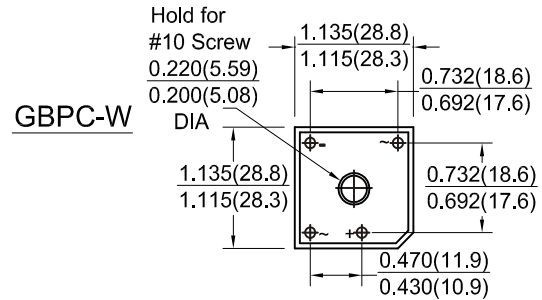




SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

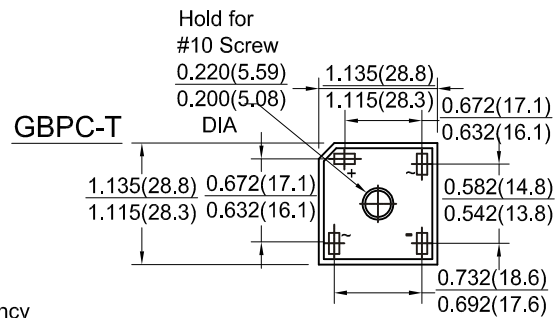
FEATURES:

- 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"(6.35mm), Faston lugs or plated copper leads 0.040"(1.02mm)diameter suffix letter"W" or "L" added to indicate lead
 Polarity : Polarity symbols marked on body
 Mounting Position : Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for max. heat transfer efficiency
 Weight : 19 grams or 0.67 ounce
 Mounting Torque : 20 in.-lb. max



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

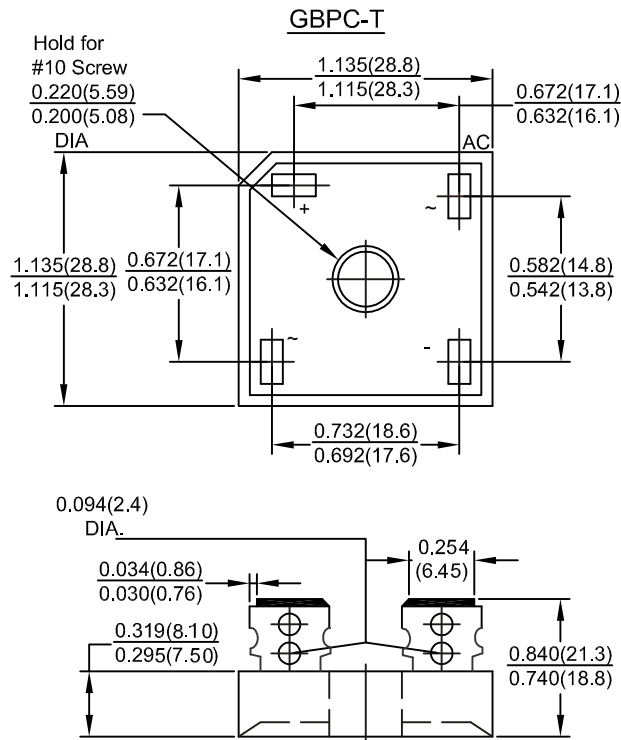
Rating at 25° C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	GBPC								Units
		50005 T/W	5001 T/W	5002 T/W	5004 T/W	5006 T/W	5008 T/W	5010 T/W	5010 T/W	
	Marking	GBPC 50005	GBPC 5001	GBPC 5002	GBPC 5004	GBPC 5006	GBPC 5008	GBPC 5010		
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=50° C	IO	50.0								Amps
Peak forward surge current, single sine-wave on rated load(JEDEC Method)	IFSM	400.0								Amps
Rating for fusing(1ms<tm<8.3ms)	I ² t	1200								A ² sec
Maximum instantaneous forward voltage drop per leg at 25A	VF	1.2								Volts
Maximum DC reverse current at rated DC blocking voltage per leg	IR	5.0 500								μ A
RMS isolated voltage from case to leads	VISO	2500								Volts
Typical junction capacitance	Cj	360								pF
Typical thermal resistance	Rth-JC	1.2								° C/W
Operating junction and storage temperature range	Tj, Tstg	-55 to +150								° C

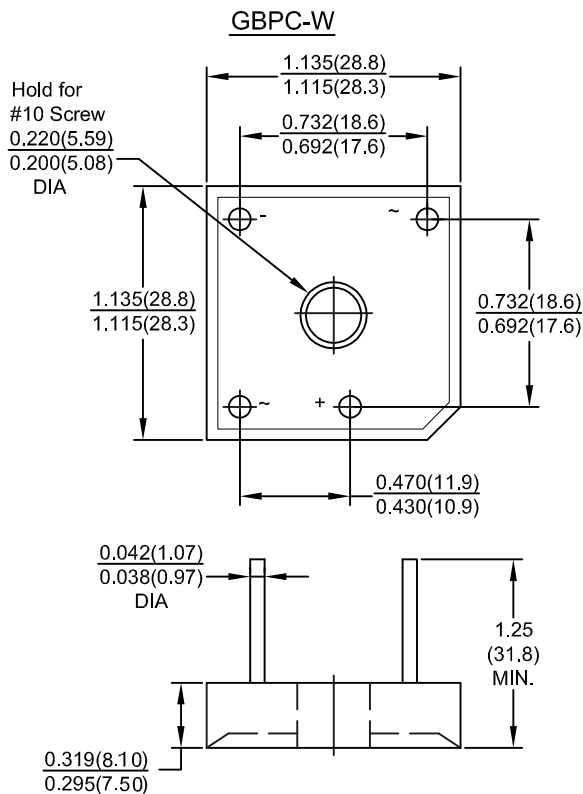
Notes : 1. Measured 1MHz and applied reverse voltage of 4.0V DC



RATINGS AND CHARACTERISTIC CURVES



Dimensions in Inches and (millimeters)



Dimensions in Inches and (millimeters)



RATINGS AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM OUTPUT RECTIFIED CURRENT

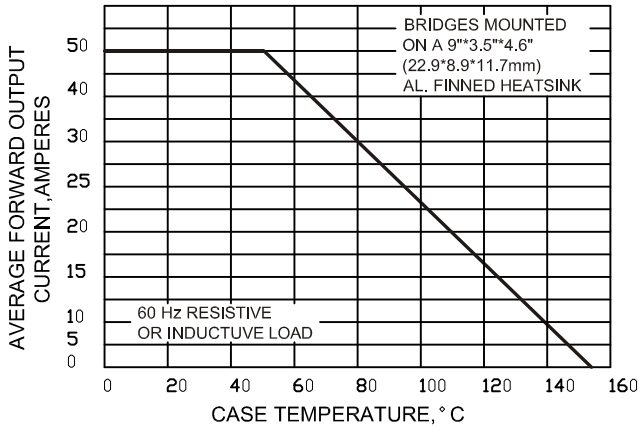


FIG.2-MAXIMUM OUTPUT RECTIFIED CURRENT

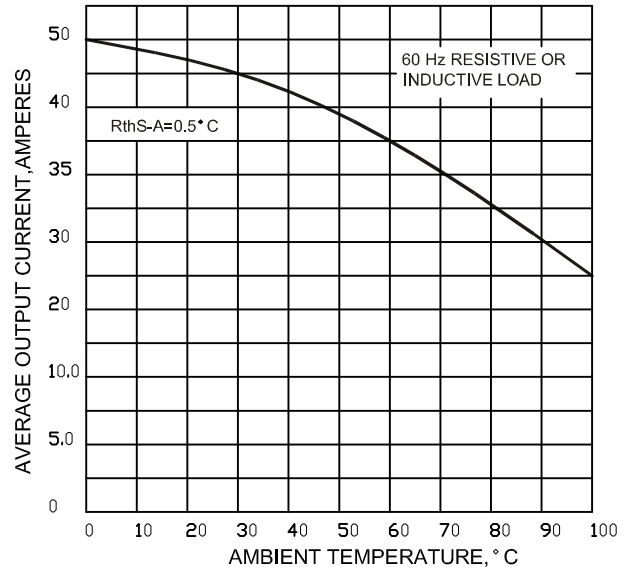


FIG.3-MAXIMUM POWER DISSIPATION

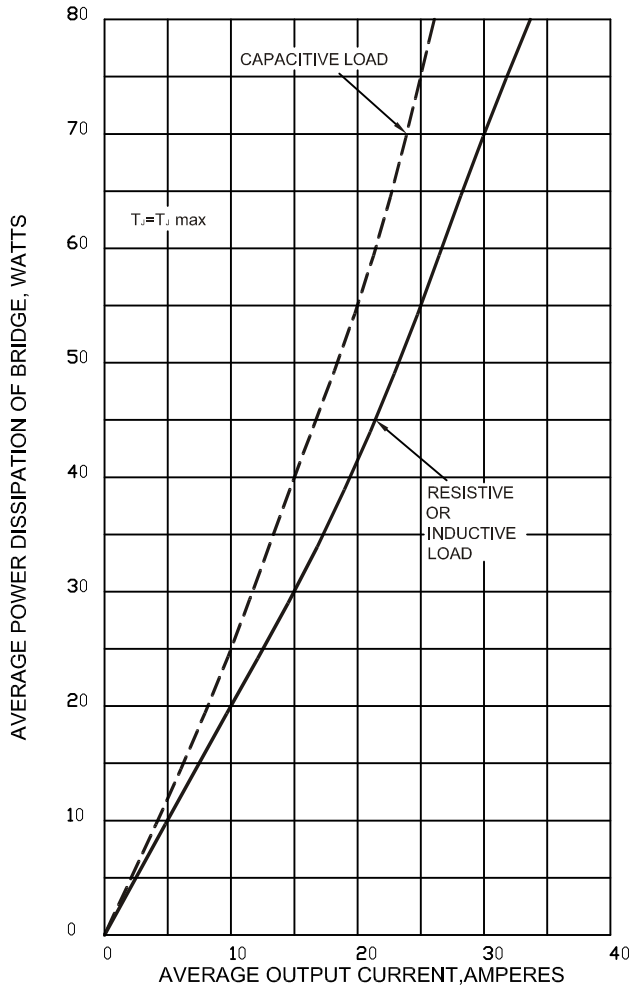
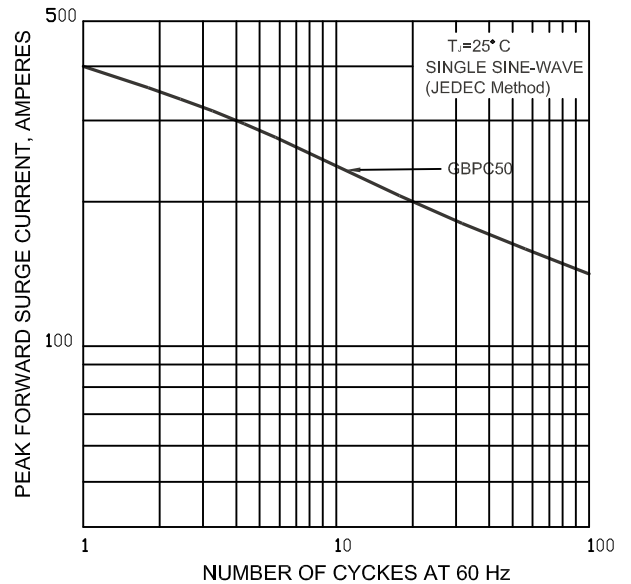


FIG.4-MAXIMUM NON-REPEITIVE PEAK FORWARD





RATINGS AND CHARACTERISTIC CURVES

FIG.5-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

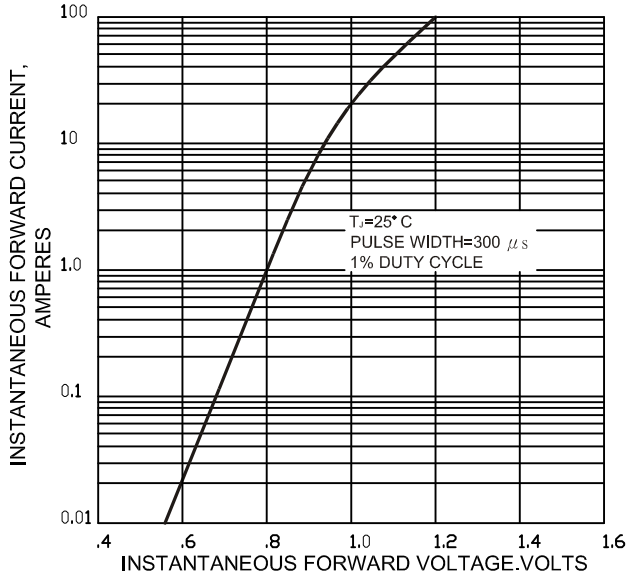


FIG.6-TYPICAL REVERSE CHARACTERISTICS

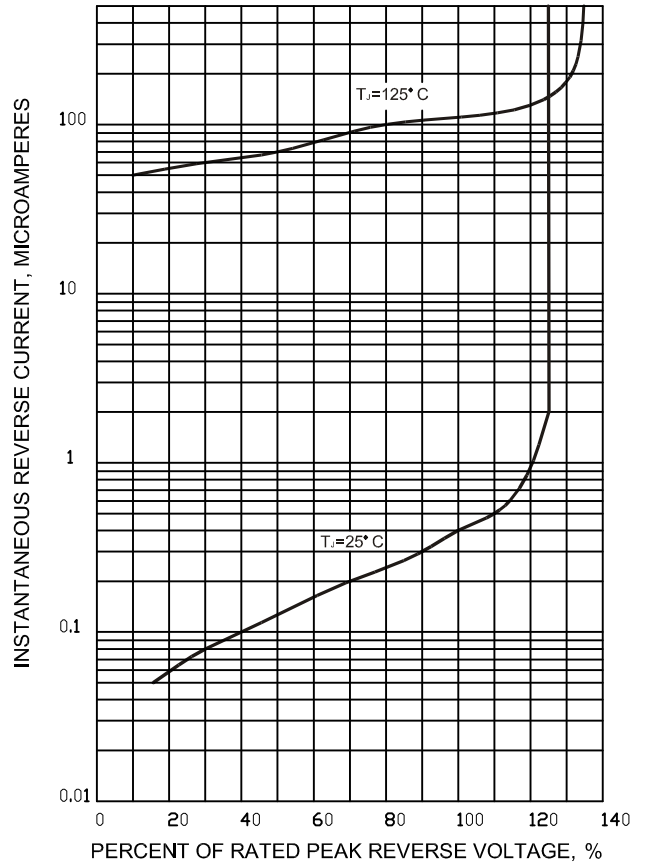


FIG.7-TYPICAL JUNCTION CAPACITANCE PER LEG

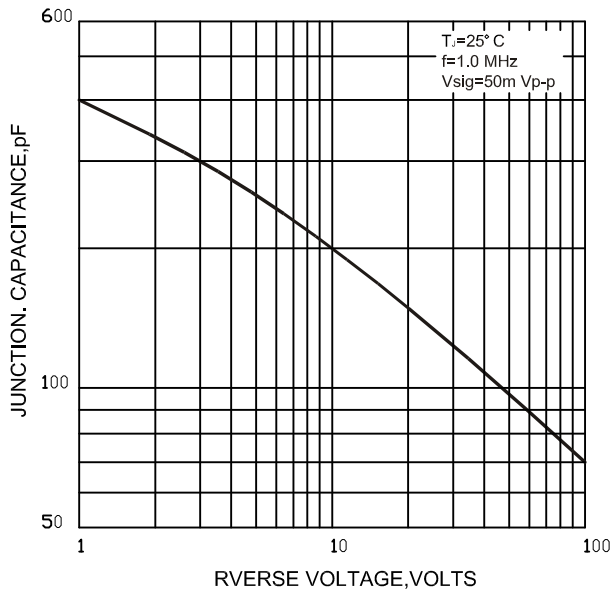
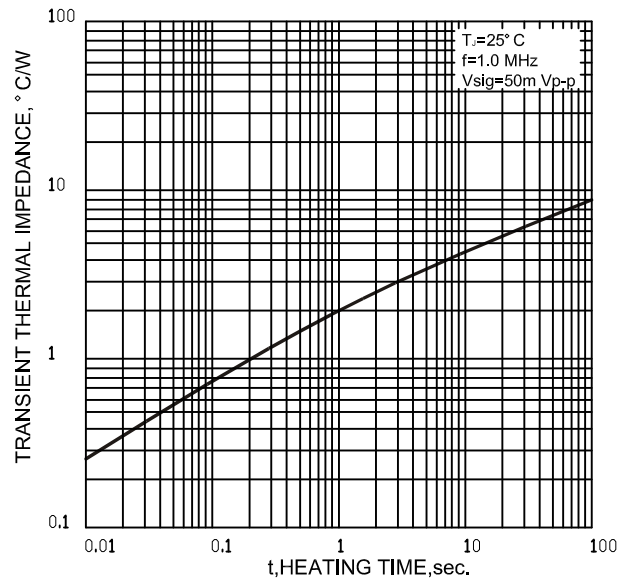


FIG.8-TYPICAL TRANSIENT THERMAL IMPEDANCE





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