

CURRENT 35.0 Ampere
 VOLTAGE RANG 50 to 1000 Volts

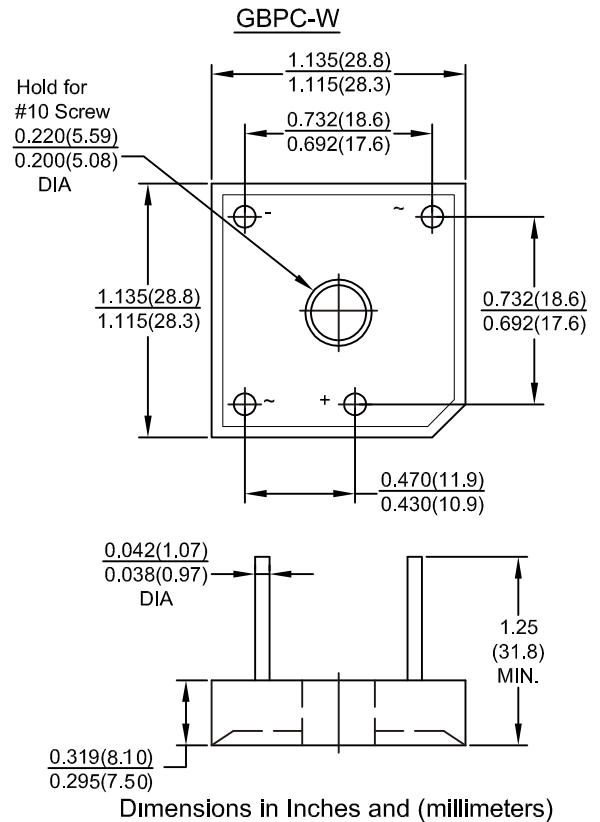
GBPC3501W THRU GBPC3510W

Features

- This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
- 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



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
		35005W	3501W	3502W	3504W	3506W	3508W	3510W	
	Marking	GBPC 35005W	GBPC 3501W	GBPC 3502W	GBPC 3504W	GBPC 3506W	GBPC 3508W	GBPC 3510W	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at TC=50 °C	I_O	35.0							Amps
Peak forward surge current, single sine-wave on rated load(JEDEC Method)	I_{FSM}	400.0							Amps
Rating for fusing(1ms<tm<8.3ms)	I^2t	660.0							A ² sec
Maximum instantaneous forward voltage drop per leg at 17.50 A	V_F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage per leg	I_R	5.0 500							μ A
RMS isolated voltage from case to leads	V_{ISO}	2500							Volts
Typical junction capacitance	C_j	300							pF
Typical thermal resistance	R_{th-JC}	1.4							° C/W
Operating junction and storage temperature range	T_j, T_{stg}	-55 to +150							° C

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

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Rating and Characteristic Curves ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

FIG.1-MAXIMUM OUTPUT RECTIFIED CURRENT

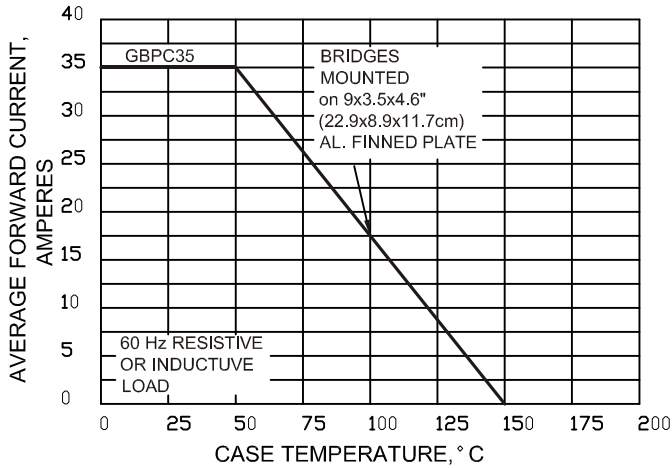


FIG.2-MAXIMUM OUTPUT RECTIFIED CURRENT

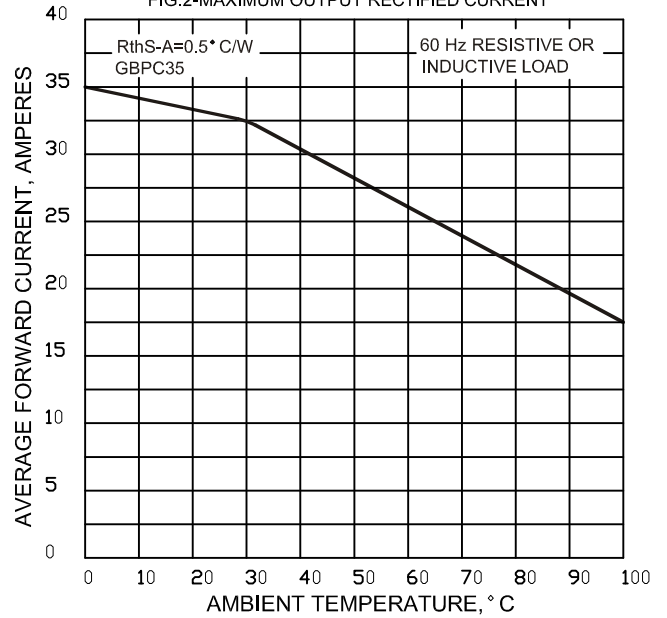


FIG.3-MAXIMUM POWER DISSIPATION

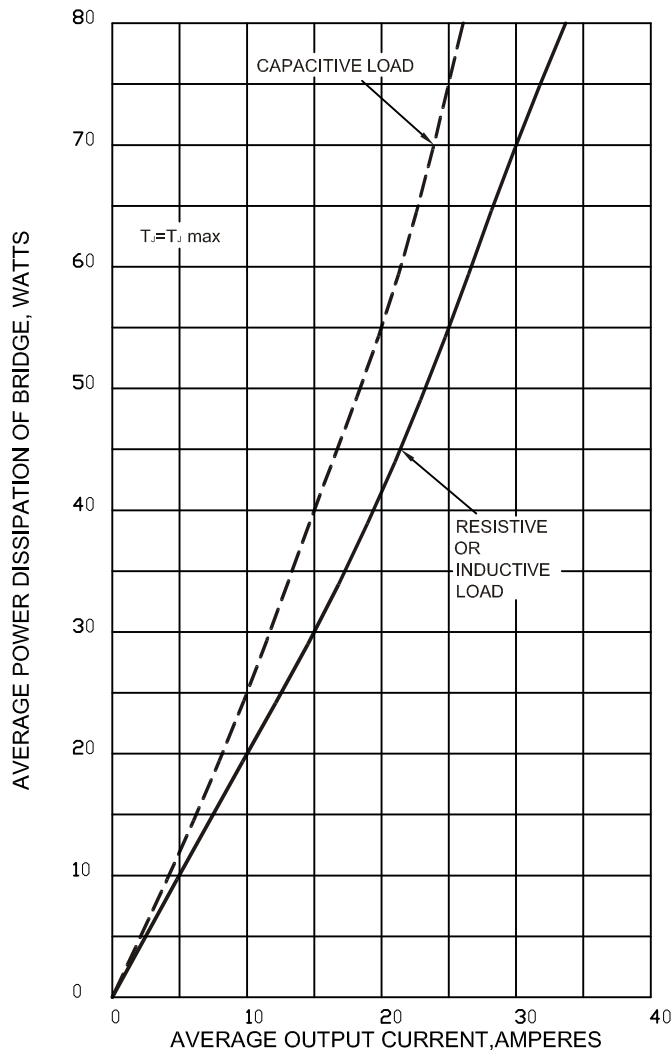
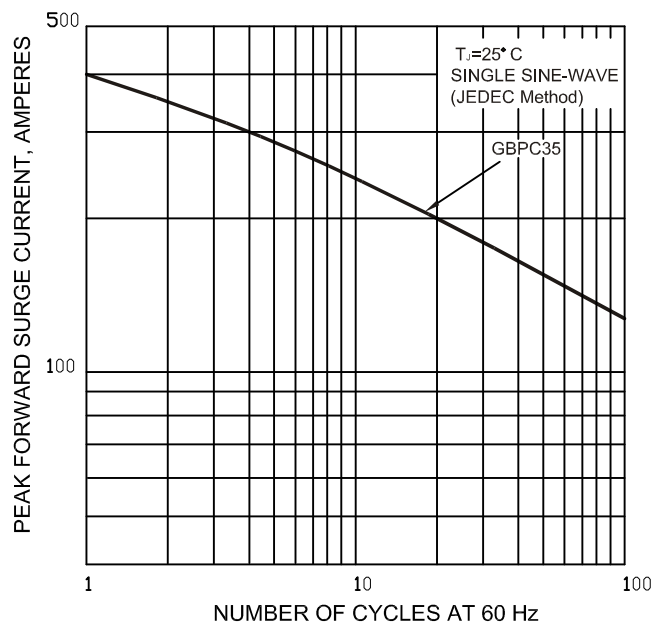


FIG.4-MAXIMUM NON-REPEITIVE PEAK FORWARD



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