GBPC35005 THRU GBPC3510

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE:50 TO 1000V CURRENT:35.0A

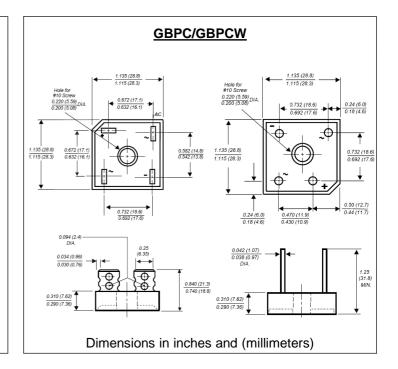


FEATURE

Surge overload rating: 400 A peak low profile design 1/4"Universal fast on terminal and \$\phi40\$ mil lead-wire available

MECHANICAL DATA

Polarity: Polarity symbol marked on body Mounting: Hole thru for #10 screw



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	GBPC 35005	GBPC 3501	GBPC 3502	GBPC 3504	GBPC 3506	GBPC 3508	GBPC 3510	units
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 Rectified Current at Ta=50°C	If(av)	35.0							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	400.0							А
Maximum Instantaneous Forward Voltage at forward current 17.5A	Vf	1.1							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =100°C	lr	10.0 500.0							μА
Operating Temperature Range	Tj	-55 to +125							°C
Storage and Operation Junction Temperature	Tstg	-55 to +150							°C

Note:

Suffix "W" for wire type

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RATINGS AND CHARACTERISTIC CURVES GBPC35005 THRU GBPC3510

FIG. 1 - MAXIMUM OUTPUT RECTIFIED CURRENT

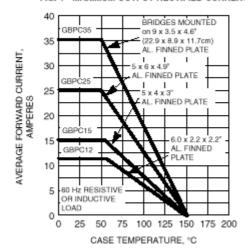


FIG. 2 - MAXIMUM OUTPUT RECTIFIED CURRENT 40 60 Hz RESISTIVE OR RthS-A=0.5 °C/W GBPC35 INDUCTIVE LOAD AVERAGE FORWARD CURRENT, AMPERES RthS-A=0.5 °C/W GBPC15 20 RthS-A=1.0 °C/W 15 10 GBPC12 5 RthS-A=1.0 0 10 20 100 0 30 40 50 60 70 80 90 AMBIENT TEMPERATURE, °C

FIG. 3 - MAXIMUM POWER DESCRIPTION

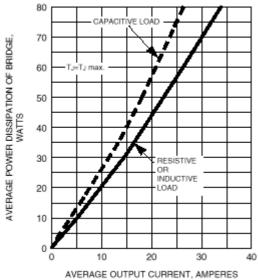


FIG. 4 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

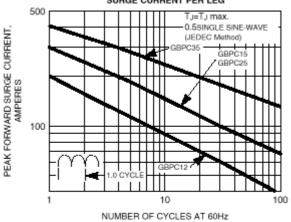


FIG. 5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

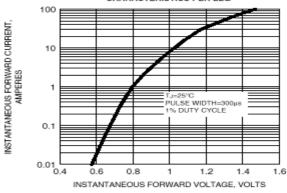
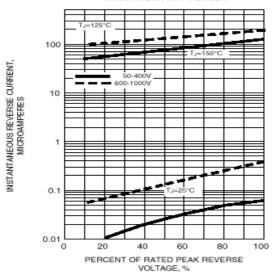


FIG. 6 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG



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