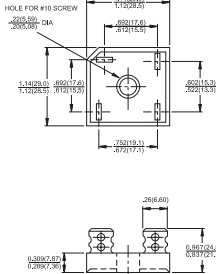
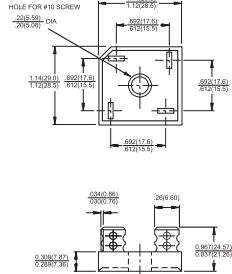


TSC 	GBPC 40, 50 SERIES High Current 40, 50 AMPS. Single Phase Glass Passivated Bridge Rectifiers	
	Voltage Range 50 to 1000 Volts Current 40, 50.0 Amperes	
Features ✧ UL Recognized File # E-96005 ✧ Glass passivated junction ✧ The plastic material used carries Underwriters Laboratory Flammability Recognition 94V-0 ✧ Integrally molded heatsink provide very low thermal resistance for maximum heat dissipation ✧ Universal 4-way terminals; snap-on, wrap-around, solder or P.C. board mounting ✧ Surge overload ratings 400 amperes ✧ Terminals solderable per MIL-STD-202, Method 208 ✧ Typical I_R less than 0.2 uA ✧ High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths ✧ Isolated voltage from case to lead over 2500 volts	GBPC40 GBPC40-M   Dimensions in inches and (millimeters)	
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%		
Type Number	Symbol	-005 -01 -02 -04 -06 -08 -10 Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50 100 200 400 600 800 1000 V
Maximum RMS Voltage	V_{RMS}	35 70 140 280 420 560 700 V
Maximum DC Blocking Voltage	V_{DC}	50 100 200 400 600 800 1000 V
Maximum Average Forward Rectified Current GBPC40 @T_C= 55°C GBPC50	I_(AV)	40.0 50.0 A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method) GBPC40 GBPC50	I_{FSM}	400 400 A
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current GBPC40 @20A GBPC50 @25A	V_F	1.1 V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element	I_R	10 uA
Typical Thermal Resistance (Note 1)	R_{θC}	1.5 °C/W
Operating and Storage Temperature Range	T_J , T_{STG}	-50 to +150 °C

Notes: 1. Thermal Resistance from Junction to Case.
2. Suffix "M" - Terminal Location Face to Face.

RATINGS AND CHARACTERISTIC CURVES (GBPC40005 THRU GBPC4010) GBPC50005 GBPC5010

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

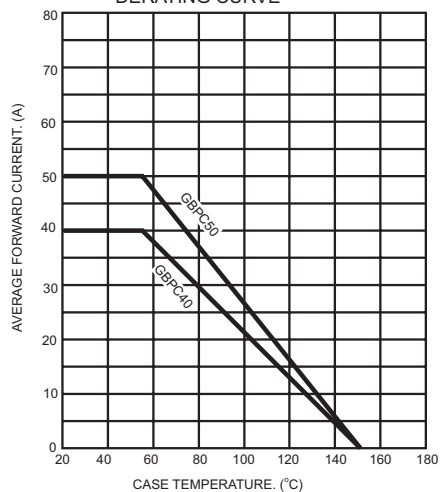


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

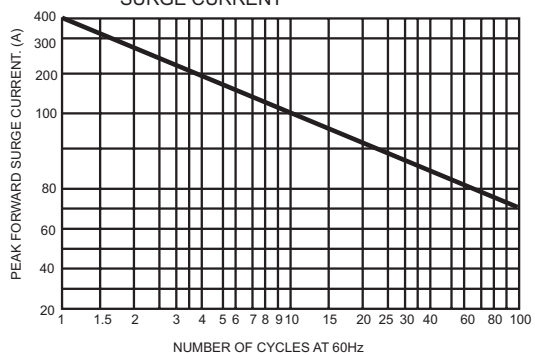


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

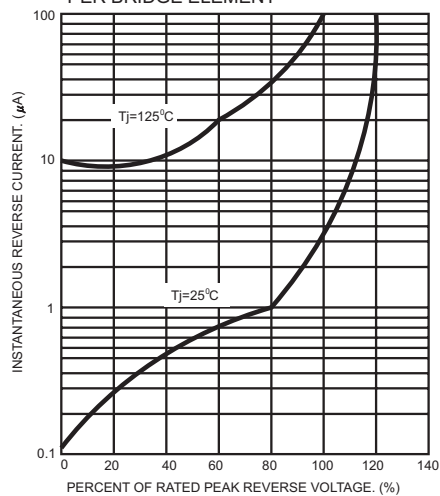


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

