TSC 5

GBPC 40, 50 SERIES

High Current 40, 50 AMPS. Single Phase Glass Passivated Bridge Rectifiers





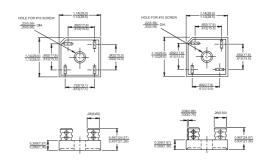
Voltage Range 50 to 1000 Volts Current 40, 50.0 Amperes

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%

if or capacitive load, delate 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 @T _C = 55°C	GBPC40 GBPC50	I _(AV)	40.0 50.0						Α	
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	GBPC40 GBPC50	I _{FSM}				400 400				Α
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)		$R\theta_{JC}$	1.5							€ 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 ($^{\mbox{\footnotesize GBPC40005}}_{\mbox{\footnotesize GBPC50005}}$ THRU $^{\mbox{\footnotesize GBPC4010}}_{\mbox{\footnotesize GBPC5010}}$

FIG.1- MAXIMUM FORWARD CURRENT **DERATING CURVE** AVERAGE FORWARD CURRENT. (A) CASE TEMPERATURE. (°C)

