PANJIT SEMI CONDUCTOR

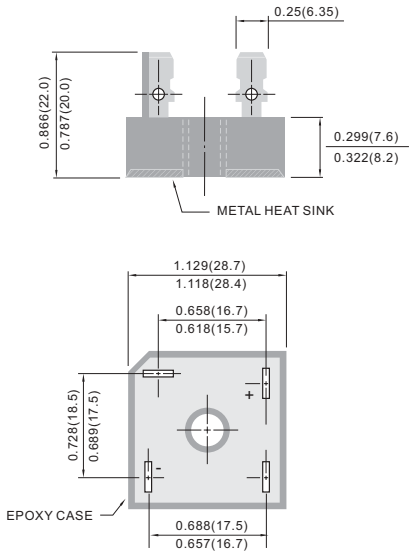
DATA SHEET

GBPC25005~GBPC2508

GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE 50 to 800 Volts **CURRENT** 25 Amperes

GBPC Unit:inch(mm)



FEATURES

- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- The plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- Both normal and Pb free product are available :

  Normal : 80~95% Sn, 5~20% Pb

  Pb free: 99% Sn above

MECHANICALDATA

Case:Molded plastic with heatsink integrally mounthed in the bringe encapsulation.

Mounting position: Any

Weight: 1 ounce, 30 grams

Therminals: Plated . 25" FASTON

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.
For Capacitive load derate current by 20%.

PARAMETER	SYMBOL	GBPC 25005	GBPC 2501	GBPC 2502	GBPC 2504	GBPC 2506	GBPC 2508	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	V
Maximum Average Forward Current for Resistive Load at T_C =55℃	I_{AV}	25						A
Non-repetitive Peak Forward Surge Current at Rated Load	I_{FSM}	300						A
Maximum Forward Voltage Drop per Element at 12.5A Specified Current	V_F	1.2						V
Maximum Reverse Leakage Current at Rated @ T_A =25℃ DC Blocking Voltage per element @ T_A =100℃	I_R	10.0 1000						uA
I^2 T Rating for fusing (t < 8.35ms)	I^2t	374						A^2sec
Typical Thermal Resistance per leg	$R_{\theta JC}$	2						℃ / W
Operating Temperature Range	T_J	-50 to + 150						℃
Storage Temperature Range	T_A	-50 to + 150						℃

RATING AND CHARACTERISTIC CURVES

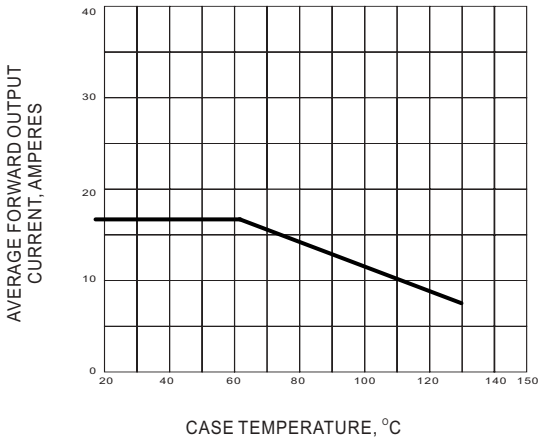


Fig.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

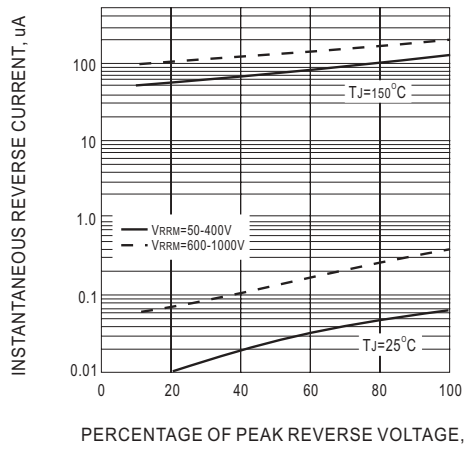


Fig.2 TYPICAL REVERSE CHARACTEISTICS

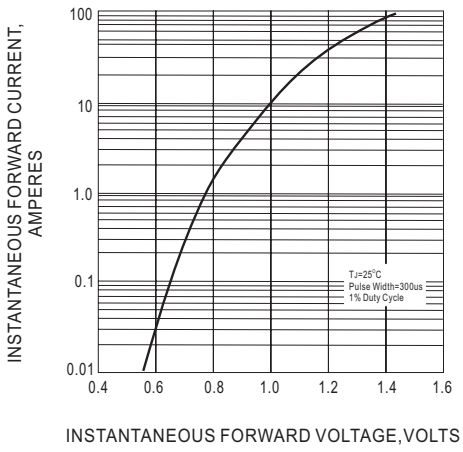


Fig.3 TYPICAL FORWARD CHARACTERISTIC