PANJIT SEMI CONDUCTOR

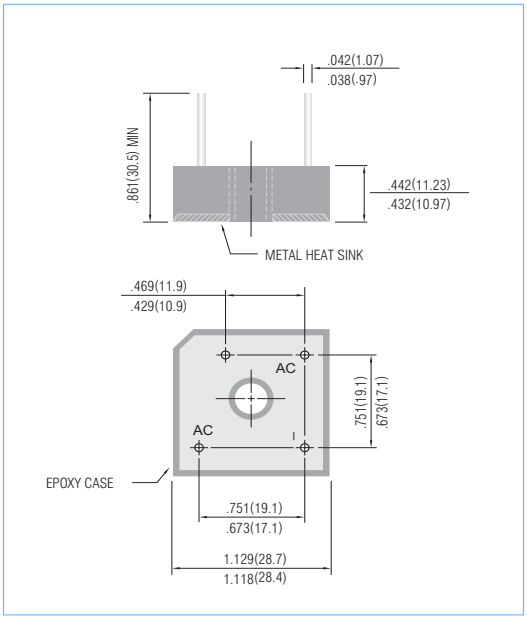
DATA SHEET

GBPC25005W~GBPC2508W

HIGH CURRENT SILICON BRIDGE RECTIFIER

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

GBPC-W Unit: inch (mm)



FEATURES

- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- The plastic package has Underwriters Laboratory Flammability Classification 94V-O.

MECHANICAL DATA

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

Mounting position: Any

Weight: 1 ounce, 30 grams

" W " Sufflx Designates Wlre Leads
No Sufflx Designates faston Terminals
All Models are Available on B(Height)=7.62mm Max. Epoxy Case

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 25005W	GBPC 2501W	GBPC 2502W	GBPC 2504W	GBPC 2506W	GBPC 2508W	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	V
Maximum RMS Bridge Input 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°C	I_{AV}	25						A
Non-repetitive Peak Forward Surge Current at Rated Load	I_{FSM}	300						A
Maximum Forward Voltage per Bridge Element at 12.5A Specified Current	V_F	1.2						V
Maximum Reverse Leakage Current at Rated @ T_A=25°C Dc Blocking Voltage @ T_A=100°C	I_R	10 1000						uA
I^2t Rating for fusing (t<8.35ms)	I^2t	374						A^2t
Typical Thermal Resistance per leg	RθJC	2.0						°C/W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to + 150						°C

RATING AND CHARACTERISTIC CURVES

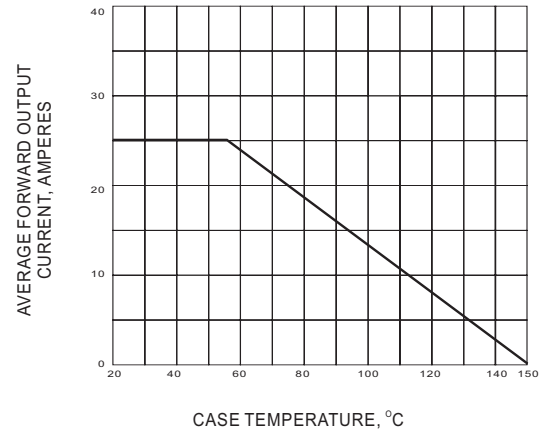


Fig.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

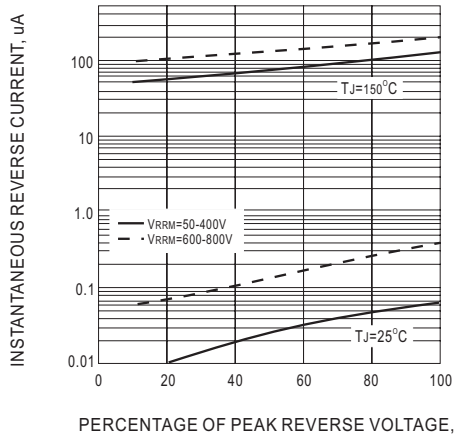


Fig.2 TYPICAL REVERSE CHARACTEISTICS

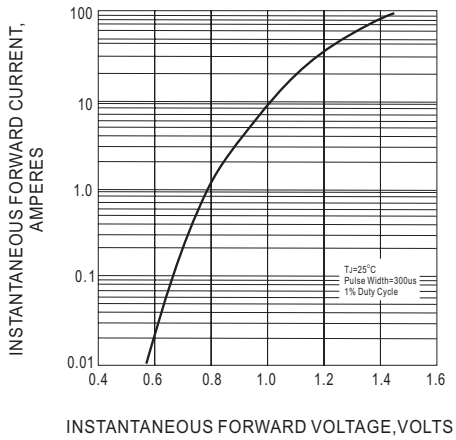


Fig.3 TYPICAL FORWARD CHARACTERISTIC