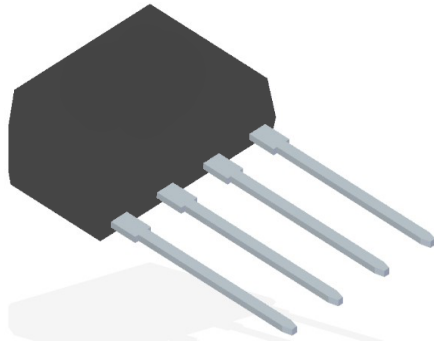


GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 1000 Volts

FORWARD CURRENT - 2.0 Amperes

GBP



FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V#0

MECHANICAL DATA

- Polarity : As marked on body
- Weight : 0.05 ounces, 1.52 grams
- Mounting position : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	GBP210	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current @ $T_C=100^{\circ}C$ (With heatsink)	$I_{(AV)}$	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave @ $T_J = 25^{\circ}C$	I_{FSM}	60	A
Maximum Forward Voltage at 2.0A DC	V_F	1.1	V
Maximum DC Reverse Current at rated Blocking Voltage @ $T_J=25^{\circ}C$ @ $T_J=125^{\circ}C$	I_R	5.0 500	μA
I^2t Rating for fusing ($3ms \leq t \leq 8.3ms$)	I^2t	15	A^2S
Typical Junction Capacitance per element (Note 1)	C_J	25	pF
Typical thermal resistance (Unit mounted on 30mmx30mmx1mm Copper plate heatsink.)	$R_{\theta JC}$ $R_{\theta JL}$ $R_{\theta JA}$	10 12 30	$^{\circ}C/W$
Typical thermal resistance (without heatsink)	$R_{\theta JC}$ $R_{\theta JL}$ $R_{\theta JA}$	12 18 40	$^{\circ}C/W$
Operation Temperature Range	T_J	-55 to +150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}C$

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

FIG.1- FORWARD CURRENT DERATING CURVE

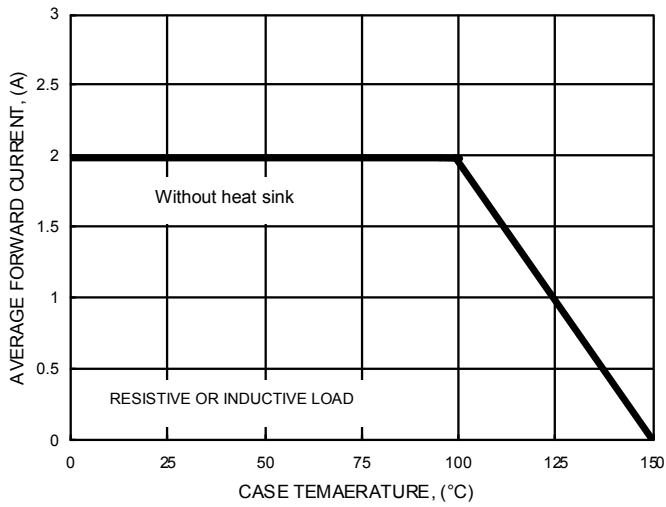


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

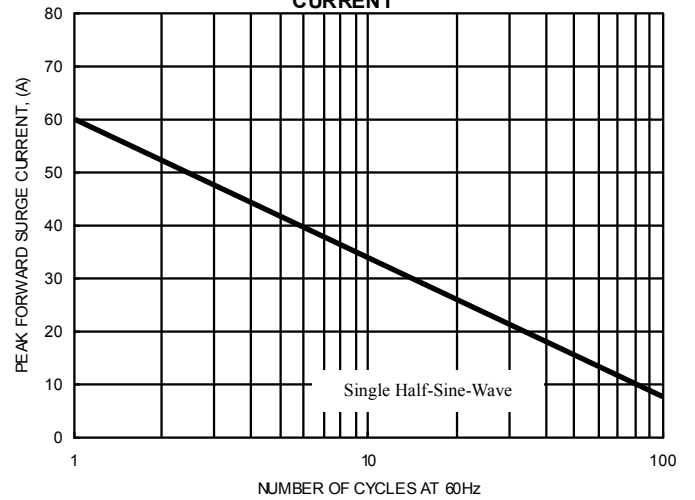


FIG.3- TYPICAL JUNCTION CAPACITANCE

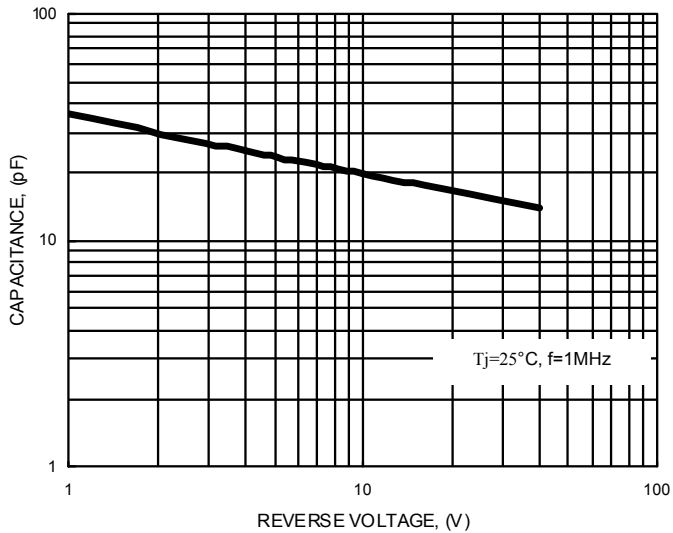


FIG.4- TYPICAL FORWARD CHARACTERISTICS

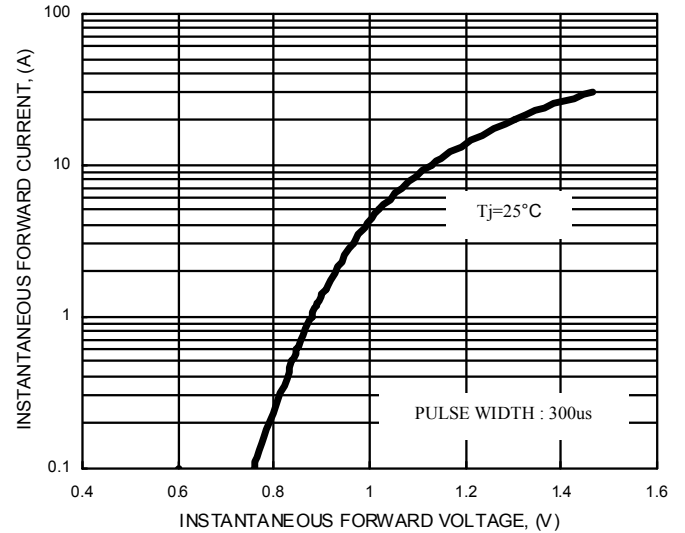


FIG.5- TYPICAL REVERSE CHARACTERISTICS

