

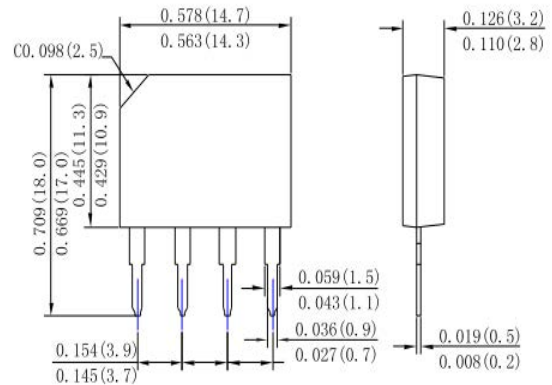


GBP2005 - GBP210 Bridge Rectifiers

Features

- ☐ Surge overload rating-80 amperes peak
- ☐ Ideal for printed circuit board
- ☐ Plastic material has Underwriters Laboratory
- ☐ Flammability Classification 94V-O
- ☐ Mounting position: Any
- ☐ Lead: Silver Plated Cooper Lead.

GBP



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 208	GBP 210	UNITS
Maximum repetitive 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 with heatsink	$I_{(AV)}$	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50.0							A
Rating for fusing ($t=8.3ms$, $T_A=25^\circ C$)	I_t^2	10.375							A_s^2
Maximum instantaneous forward voltage at 2.0A	V_F	1.10							V
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$	I_R	5.0 500							μA
Typical junction capacitance (Note 1)	C_J	30.0							pF
Typical thermal resistance	R_{qJA}	55.0							$^\circ C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							$^\circ C$

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Typical Characteristics

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

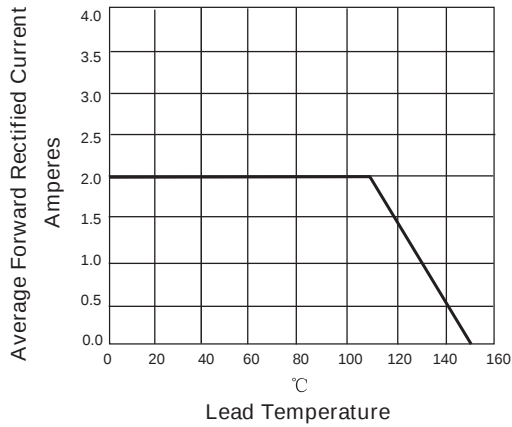


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

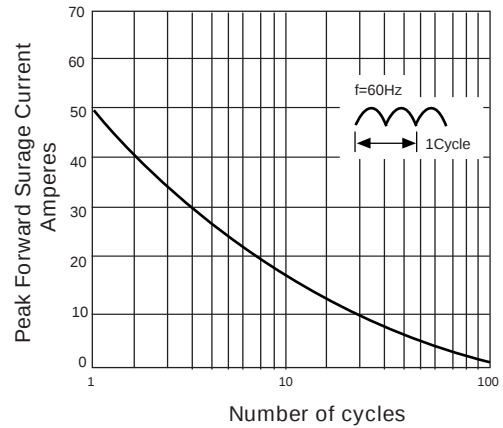


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

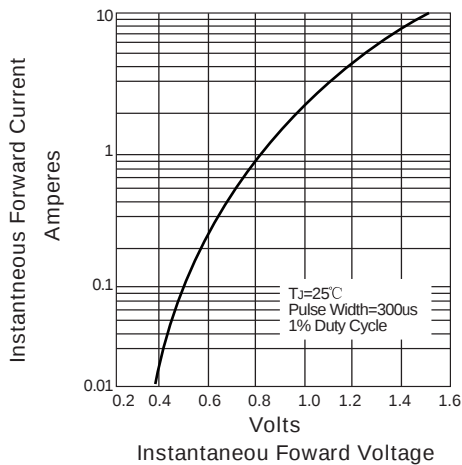


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

