RBV6005-RBV610

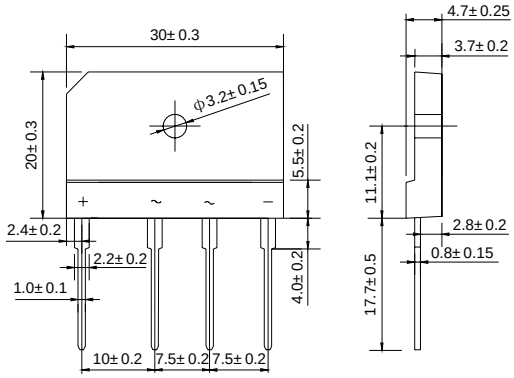
Silicon Bridge Rectifiers

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 6.0 A

KBJ

Features

- ◇ Ideal for printed circuit board
- ◇ Reliable low cost construction utilizing molded plastic technique
- ◇ Surge overload rating: 200 amperes peak



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		RBV 6005	RBV 601	RBV 602	RBV 604	RBV 606	RBV 608	RBV 610	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 forw ard Output current @T_C=55°C	$I_{(AV)}$	6.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I_{FSM}	200							A
Maximum instantaneous forw ard voltage at 3.0 A	V_F	1.0							V
Maximum reverse current @T_A=25°C at rated DC blocking voltage @T_A=100°C	I_R	10 200							μA μA
Operating junction temperature range	T_j	- 55 ---- + 150							°C
Storage temperature range	T_{STG}	- 55 ---- + 150							°C

Ratings AND Charactieristic Curves

FIG.1 – PEAK FORWARD SURGE CURRENT

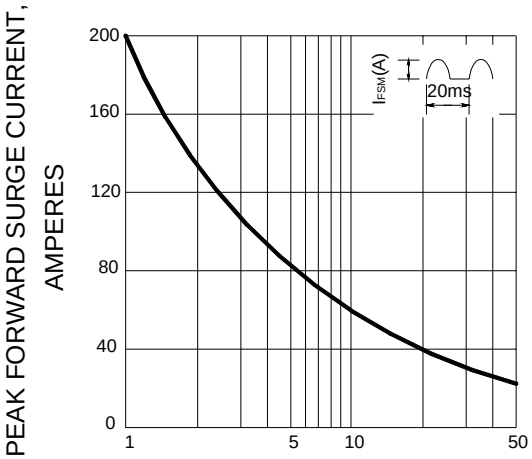


FIG.2 – FORWARD DERATING CURVE

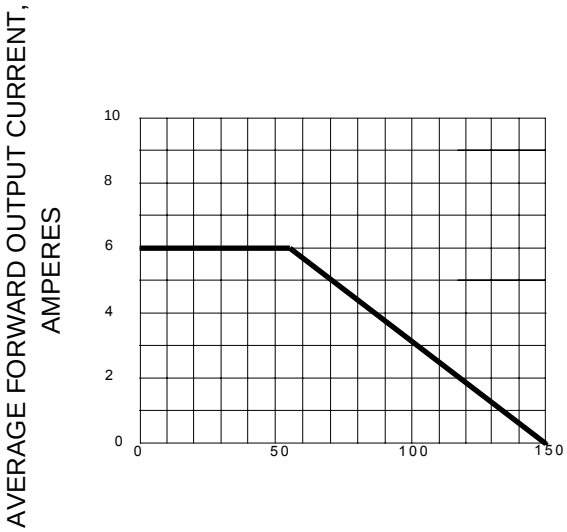


FIG.3 – TYPICAL FORWARD CHARACTERISTIC