Silicon Bridge Rectifiers *RBV4005--RBV410*

FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Surge overload rating: 80 amperes peak

Lead-free

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	RBV4005	RBV401	RBV402	RBV404	RBV406	RBV408	RBV410	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 forward Output current @T_C=50℃	$I_{F(AV)}$	4.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	80							A

Thermal Characteristics

Characteristic	Symbol	RBV4005	RBV401	RBV402	RBV404	RBV406	RBV408	RBV410	UNITS
Operating junction temperature range	T_J	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	RBV4005	RBV401	RBV402	RBV404	RBV406	RBV408	RBV410	UNITS
Maximum instantaneous forward voltage @2.0A	V_F	1.0							V
Maximum reverse current @T_A=25 ℃ at rated DC blocking voltage @T_A=100℃	I_R	10 100							μ A

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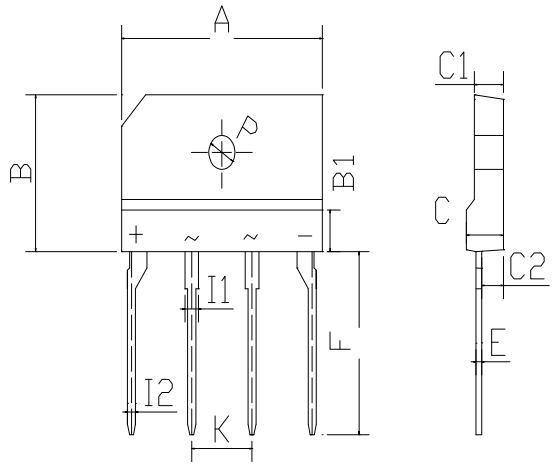
PACKAGE OUTLINE DIMENSIONS



KBJ4		
Dim	Min	Max
A	24.80	25.20
B	14.80	15.20
B1	3.80	4.20
C	4.50	4.80
C1	3.50	3.80
C2	2.60	3.00
E	0.60	0.80
F	17.15	17.75
I1	1.55	1.85
I2	0.85	1.15
K	7.20	7.80
P	Ø3.25Typical	
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
RBV4005-RBV410	KBJ4	250 Units/Box

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FIG.1 – PEAK FORWARD SURGE CURRENT

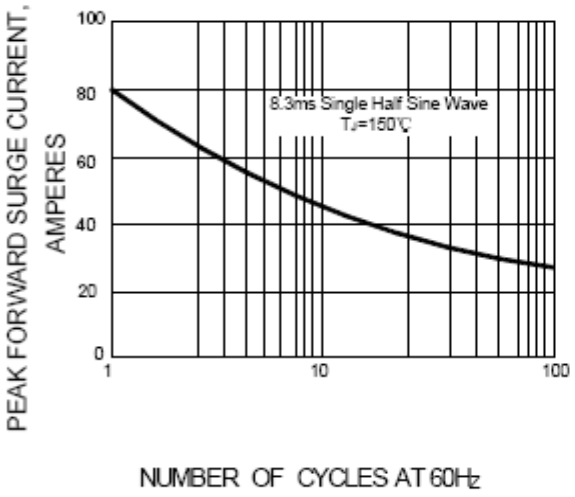

FIG.2 -- FORWARD DERATING CURVE

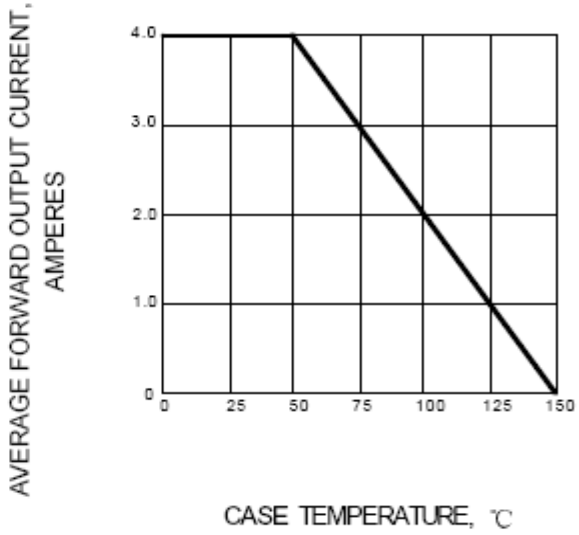
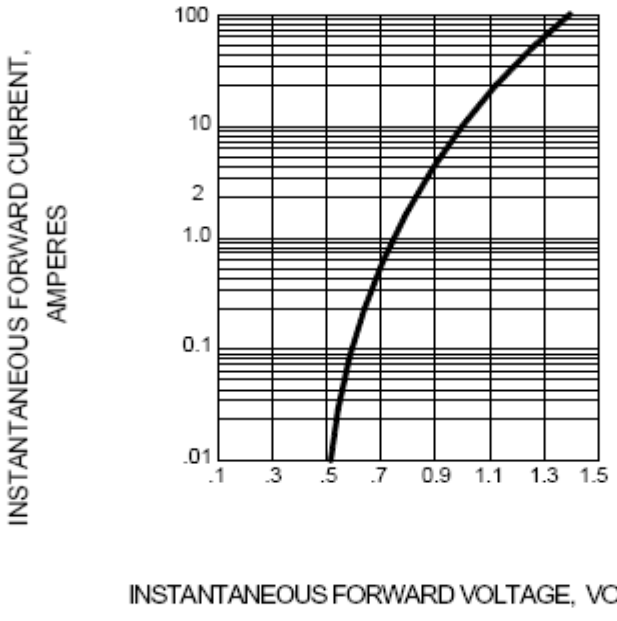
FIG.3 – TYPICAL FORWARD CHARACTERISTIC