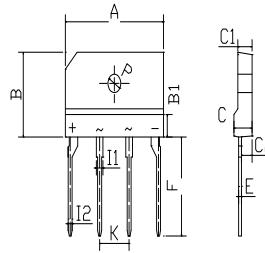




### FEATURES

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



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

### 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 <sub>c</sub> =50°C	$I_{F(AV)}$	4.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	135							A
I <sup>2</sup> t Rating for fusing @T <sub>j</sub> =25°C	I <sup>2</sup> t	75							A <sup>2</sup> S

### Thermal Characteristics

Characteristic	Symbol	RBV4005	RBV401	RBV402	RBV404	RBV406	RBV408	RBV410	UNITS
Typical junction capacitance per element	$C_J$	45							pF
Typical thermal resistance	$R_{\theta JA}$ $R_{\theta JC}$	26 4.0							°C/W
Operating junction temperature range	$T_J$	- 55 ---- + 150							°C
Storage temperature range	$T_{STG}$	- 55 ---- + 150							°C

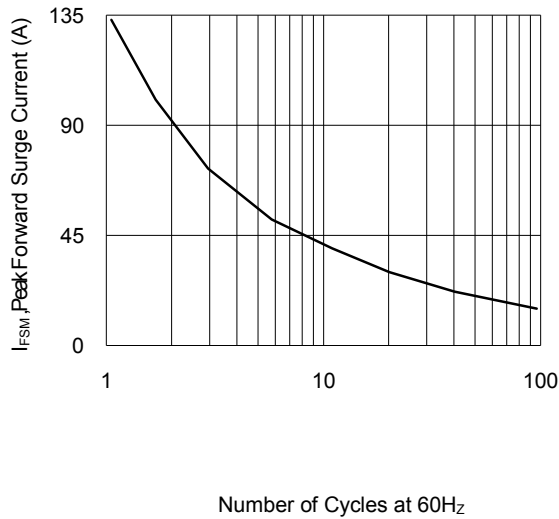
### Electrical Characteristics (@TA = 25°C unless otherwise specified)

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 <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =100°C	$I_R$	10 100							μA

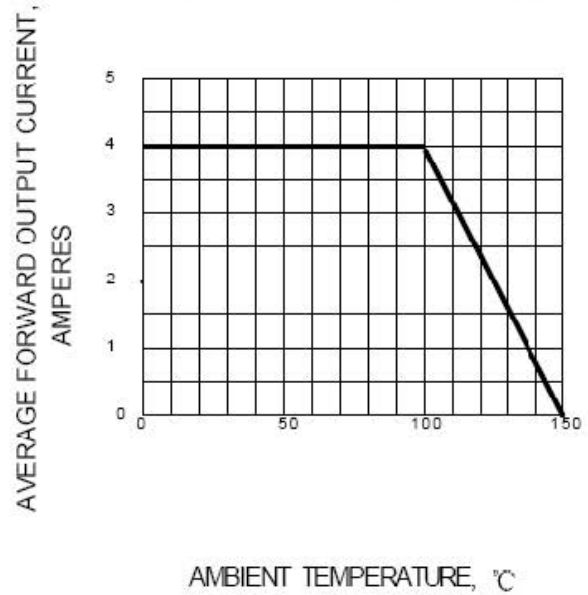


### Ratings and Characteristics Curve (TA=25°C unless otherwise noted)

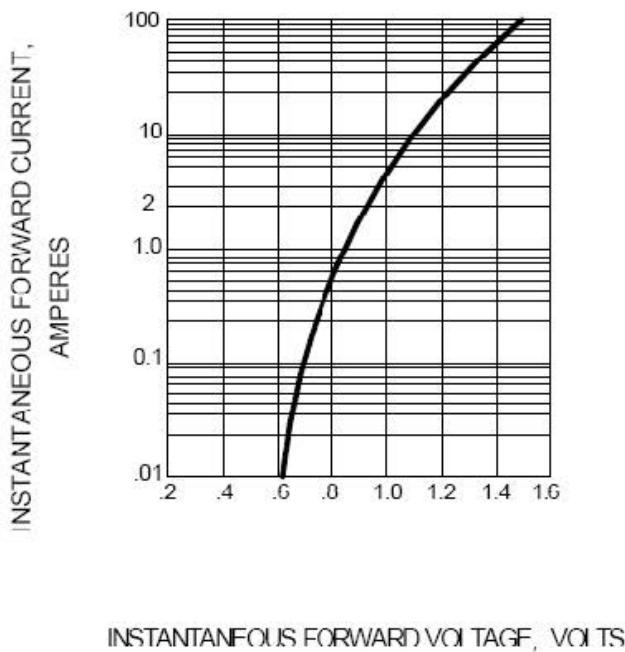
**Fig.1- Surge Current Derating Curve**



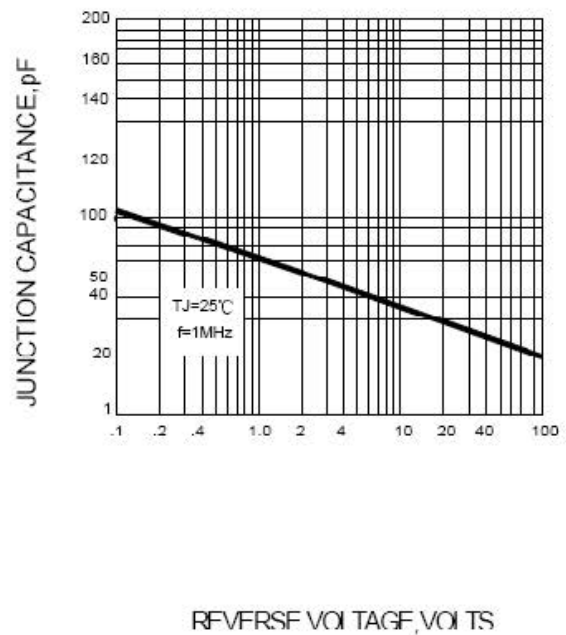
**FIG.2 – FORWARD DERATING CURVE**



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL JUNCTION CAPACITANCE**



### PACKAGE INFORMATION

Device	Package	Shipping
RBV4005-RBV410	KBJ4	250 Units/Box