



## Silicon Bridge Rectifiers

## RBV25005--RBV2510

### FEATURES

- Rating to 1000V PRV
- Surge overload rating to 300 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208



Lead-free

### MECHANICAL DATA

- Polarity: Symbols molded on body
- Weight: 0.23 ounces, 6.6 grams
- Mounting position: Any

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

Characteristic	Symbol	RBV	RBV	RBV	RBV	RBV	RBV	RBV	UNITS
		25005	2501	2502	2504	2506	2508	2510	
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 @TA=25°C	$I_{F(AV)}$	25							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	300							A

### Thermal Characteristics

Characteristic	Symbol	RBV	RBV	RBV	RBV	RBV	RBV	RBV	UNITS
		25005	2501	2502	2504	2506	2508	2510	
Typical junction capacitance per element	$C_J$	85							pF
Typical thermal resistance	$R_{\theta JC}$	0.6							°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)

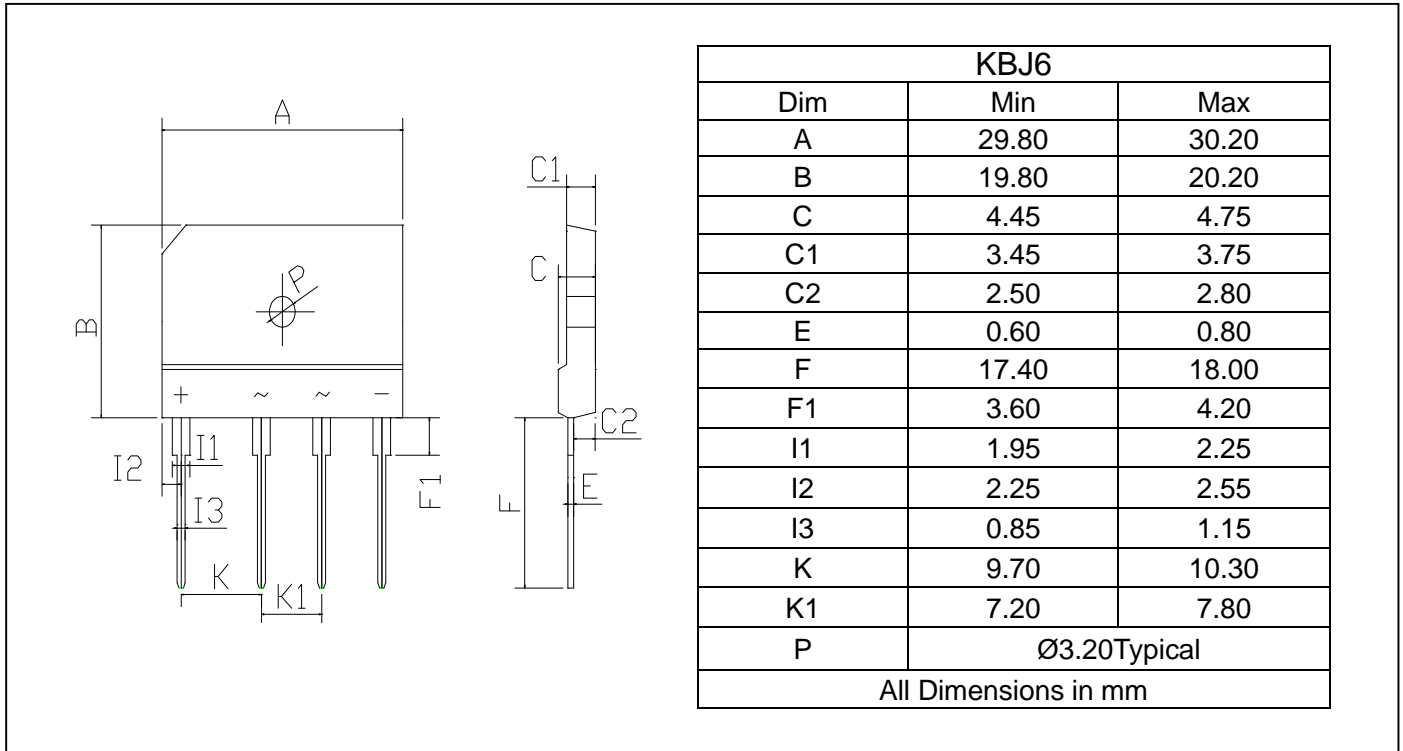
Characteristic	Symbol	RBV	RBV	RBV	RBV	RBV	RBV	RBV	UNITS
		25005	2501	2502	2504	2506	2508	2510	
Maximum instantaneous forward voltage @12.5A	$V_F$	1.1							V
Maximum reverse current @TA=25 °C at rated DC blocking voltage @TA=100°C	$I_R$	10.0 0.2							μA mA



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**PACKAGE OUTLINE DIMENSIONS**



**PACKAGE INFORMATION**

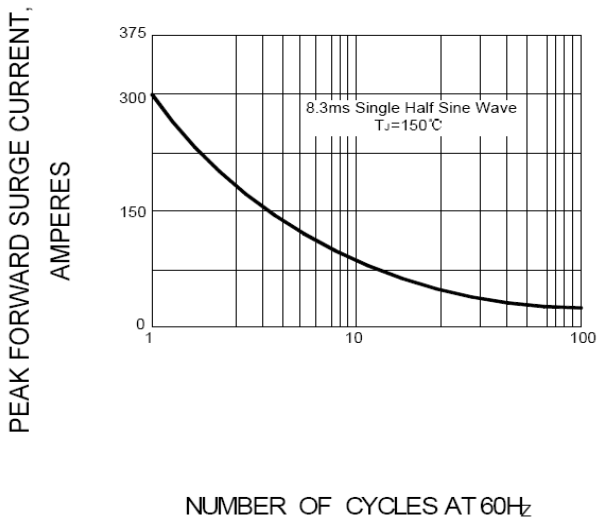
Device	Package	Shipping
RBV25005--RBV2510	KBJ6	250 Units/Box



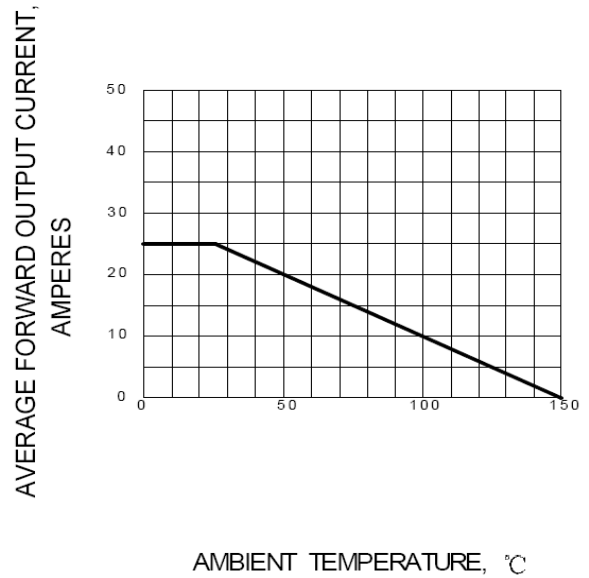
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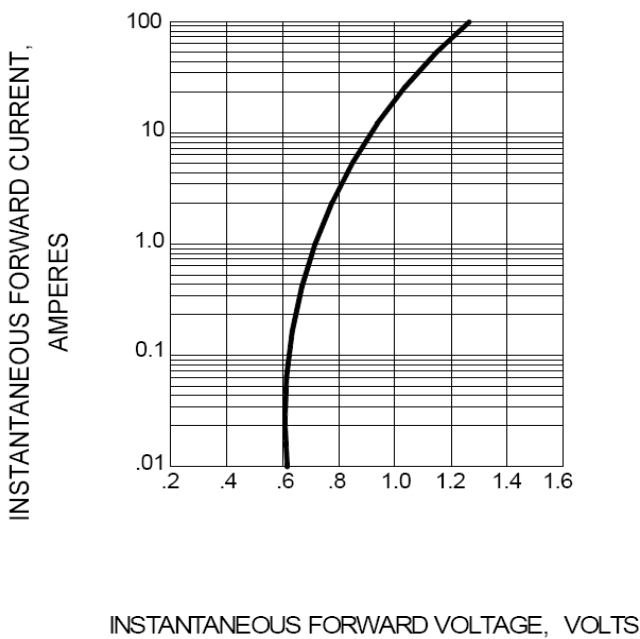
**FIG.1 – PEAK FORWARD SURGE CURRENT**



**FIG.2 – FORWARD DERATING CURVE**



**FIG.3 – TYPICAL FORWARD CHARACTERISTIC**



**FIG.4 – TYPICAL JUNCTION CAPACITANCE**

