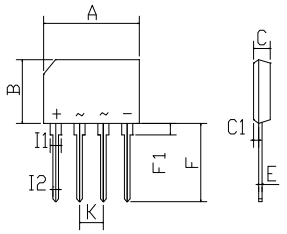
KBJ2A-KBJ2M

Silicon Bridge Rectifiers

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 90 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



KBJ2		
Dim	Min	Max
A	19.90	20.30
B	10.90	11.30
C	3.35	3.65
C1	0.95	1.25
E	0.40	0.60
F	13.30	13.90
F1	2.20	2.80
I1	1.40	1.70
I2	1.0 Typical	
K	4.70	5.30
All Dimensions in mm		

MECHANCAL DATA

- Polarity: Symbols molded on body
- Mounting position: Any

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

Characteristic	Symbol	KBJ2A	KBJ2B	KBJ2D	KBJ2G	KBJ2J	KBJ2K	KBJ2M	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_A=50℃	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	90.0							A
I²t Rating for fusing @Tj=25℃	I²t	33							A²S

Thermal Characteristics

Characteristic	Symbol	KBJ2A	KBJ2B	KBJ2D	KBJ2G	KBJ2J	KBJ2K	KBJ2M	UNITS
Typical junction capacitance per element	C_J	45							p F
Typical thermal resistance	$R_{\theta JA}$ $R_{\theta JC}$	47 10							℃/W
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	KBJ2A	KBJ2B	KBJ2D	KBJ2G	KBJ2J	KBJ2K	KBJ2M	UNITS
Maximum instantaneous forward voltage @1.0A @2.0A	V_F	1.0 1.1							V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	5.0 0.5							μ A mA

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■ Characteristics (Typical)

FIG1:Io-Ta Curve

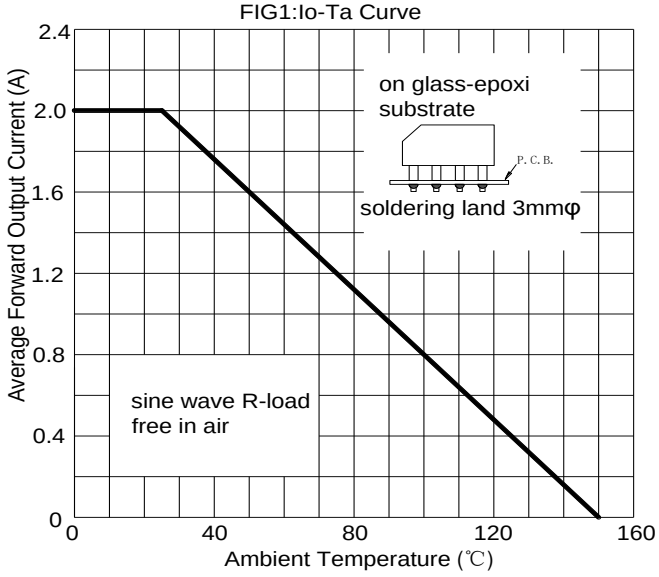


FIG2:Surge Forward Current Capability

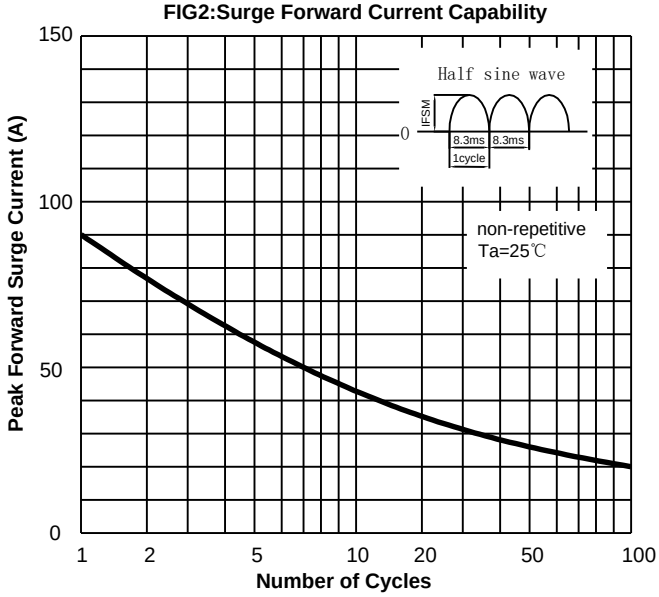


FIG3:Instantaneous Forward Voltage

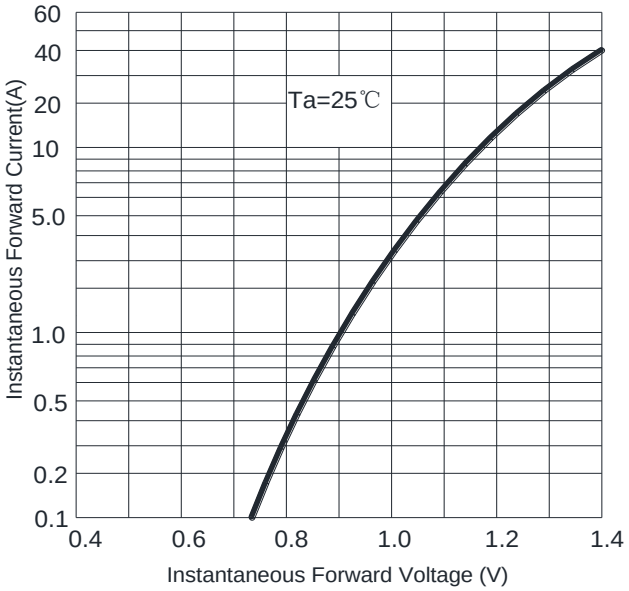
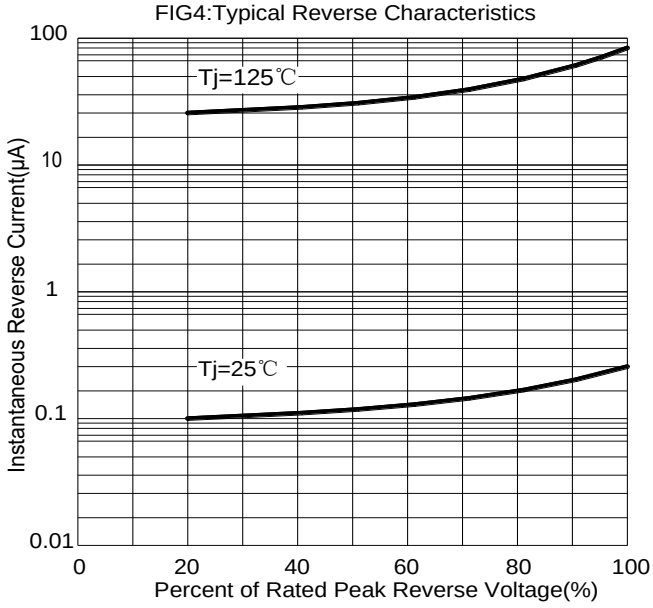


FIG4:Typical Reverse Characteristics



Device	Package	Shipping
KBJ2A--KBJ2M	KBJ2	500 Units/Box