



Silicon Bridge Rectifiers

KBL005--KBL10

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 150 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

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

Characteristic	Symbol	KBL005	KBL01	KBL02	KB03	KBL04	KBL06	KBL08	KBL10	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	1000	V
Maximum average forward Output current @T _A =50°C	I _{F(AV)}	4.0								A
Peak forward surge current 8.3msingle half-sine-wave superimposed on rated load	I _{FSM}	150								A

Thermal Characteristics

Characteristic	Symbol	KBL005	KBL01	KBL02	KB03	KBL04	KBL06	KBL08	KBL10	UNITS
Operating junction temperature range	T _J	- 55 ---- + 150								°C
Storage temperature range	T _{STG}	- 55 ---- + 150								°C

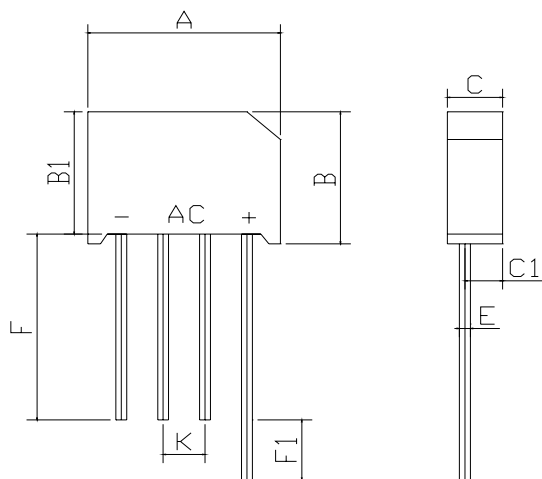
Electrical Characteristics (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	KBL005	KBL01	KBL02	KB03	KBL04	KBL06	KBL08	KBL10	UNITS
Maximum instantaneous forward voltage @2.0A	V _F	1.0								V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	10 1.0								μ A m A

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PACKAGE OUTLINE DIMENSIONS



KBL		
Dim	Min	Max
A	18.85	19.25
B	15.70	16.10
B1	14.65	15.05
C	5.90	6.30
C1	3.95	4.25
E	Ø1.20	Ø1.40
F	19.00min	
F1	4.00min	
K	4.70	5.30
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
KBL005--KBL10	KBL	500 Units/Box

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FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

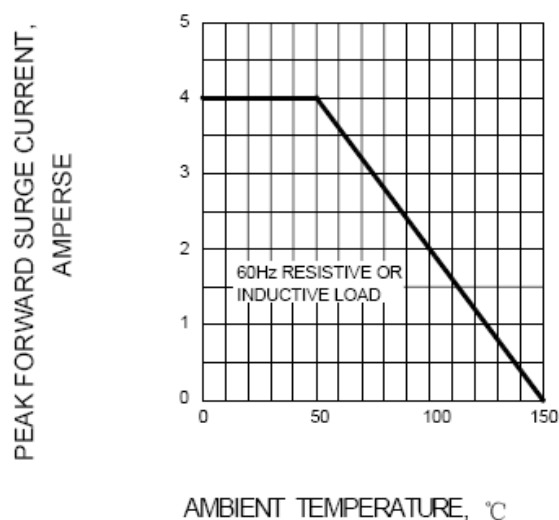


FIG.2 – MAXIMUM FORWARD SURGE CURRENT

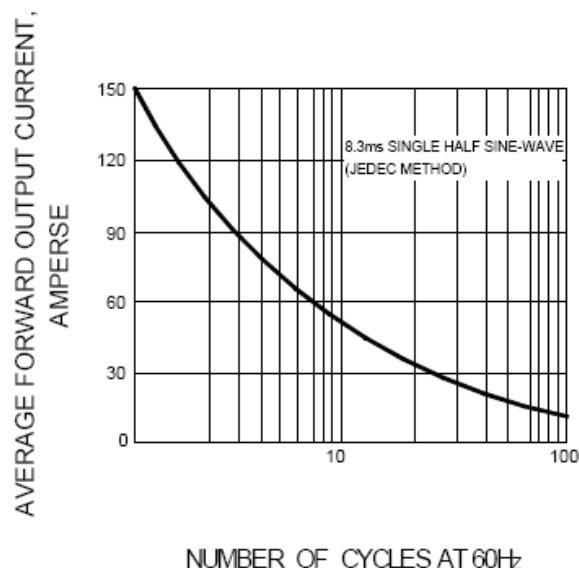


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

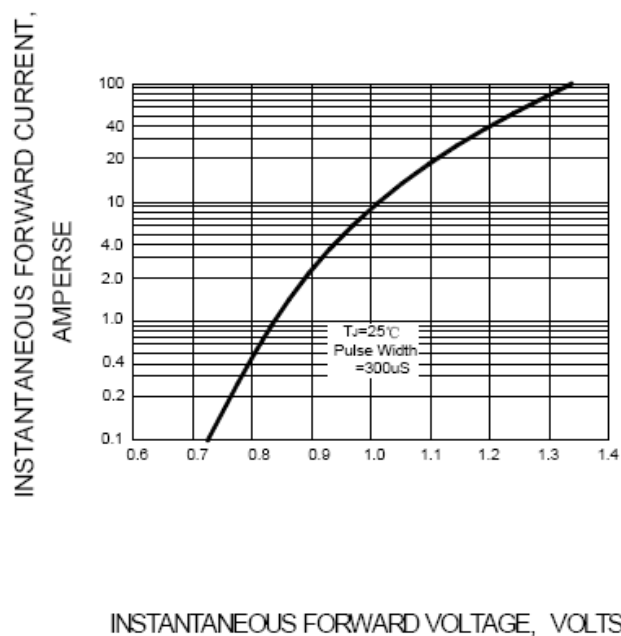


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

