

## 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<sub>A</sub> = 25°C unless otherwise specified)

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

### Thermal Characteristics

Characteristic	Symbol	KBL005	KBL01	KBL02	KB03	KBL04	KBL06	KBL08	KBL10	UNITS
Operating junction temperature range	T <sub>J</sub>	- 55 ---- + 150								°C
Storage temperature range	T <sub>STG</sub>	- 55 ---- + 150								°C

### Electrical Characteristics (@T<sub>A</sub> = 25°C unless otherwise specified)

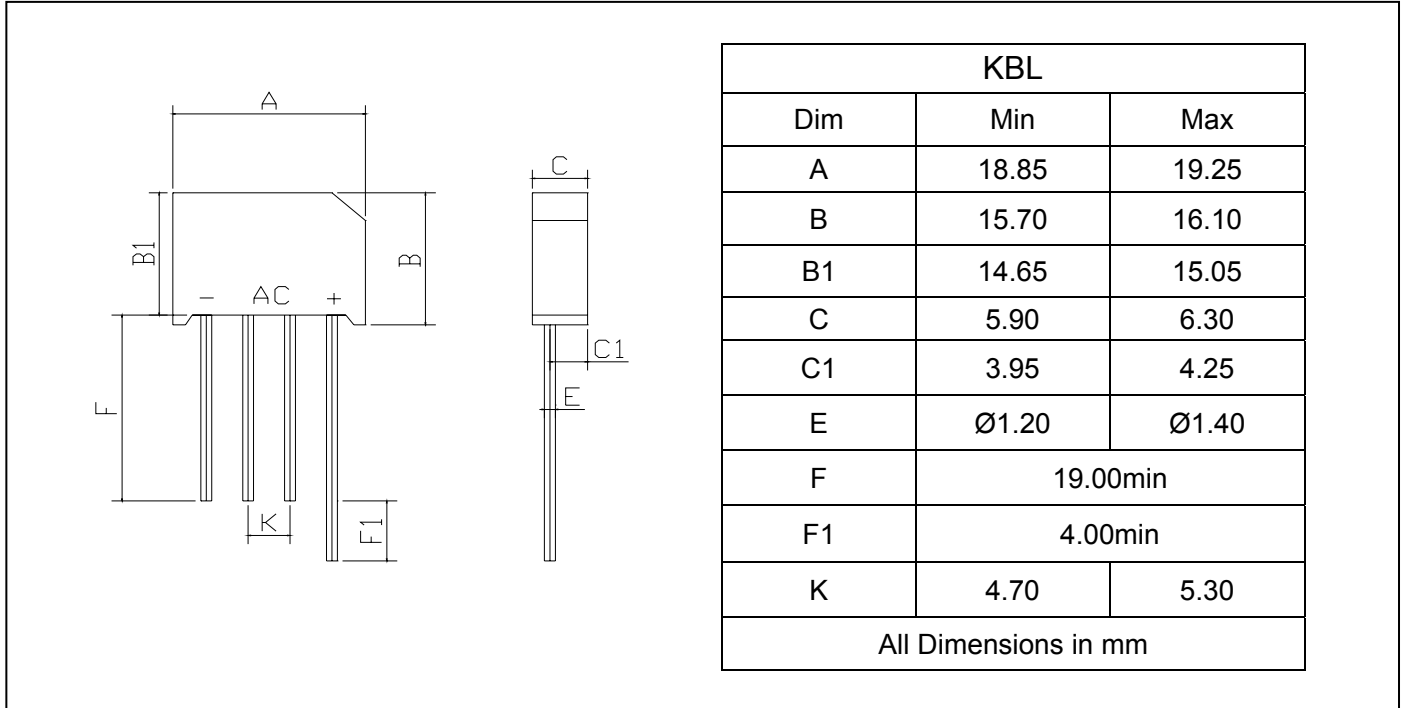
Characteristic	Symbol	KBL005	KBL01	KBL02	KB03	KBL04	KBL06	KBL08	KBL10	UNITS
Maximum instantaneous forward voltage @2.0A	V <sub>F</sub>	1.0								V
Maximum reverse current @T <sub>A</sub> =25°C at rated DC blocking voltage @T <sub>A</sub> =100°C	I <sub>R</sub>	10								μ A
		1.0								m A



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**PACKAGE OUTLINE DIMENSIONS**



**PACKAGE INFORMATION**

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



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FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

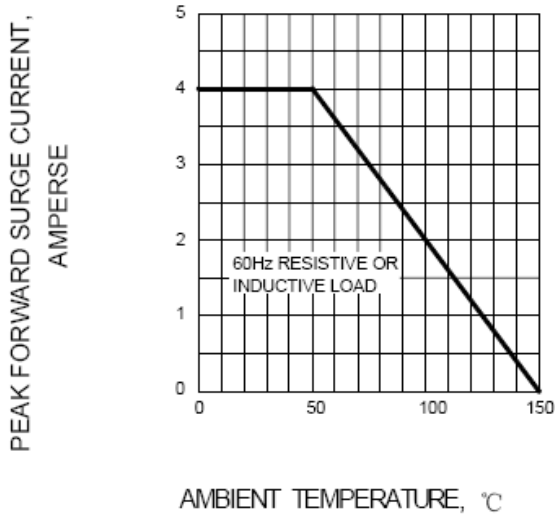


FIG.2 – MAXIMUM FORWARD SURGE CURRENT

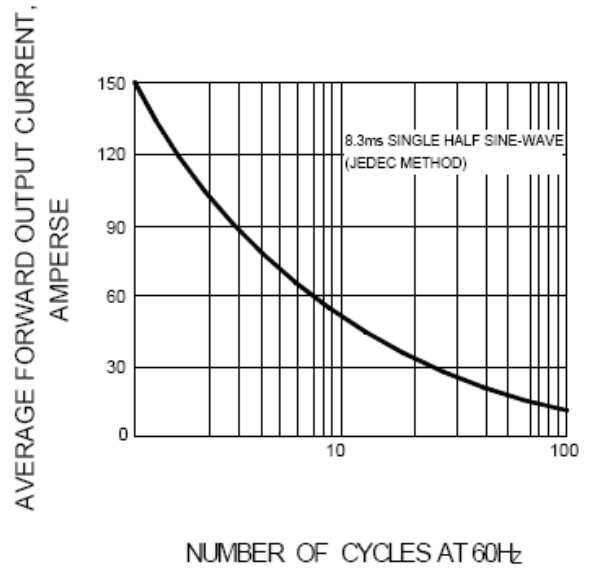


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

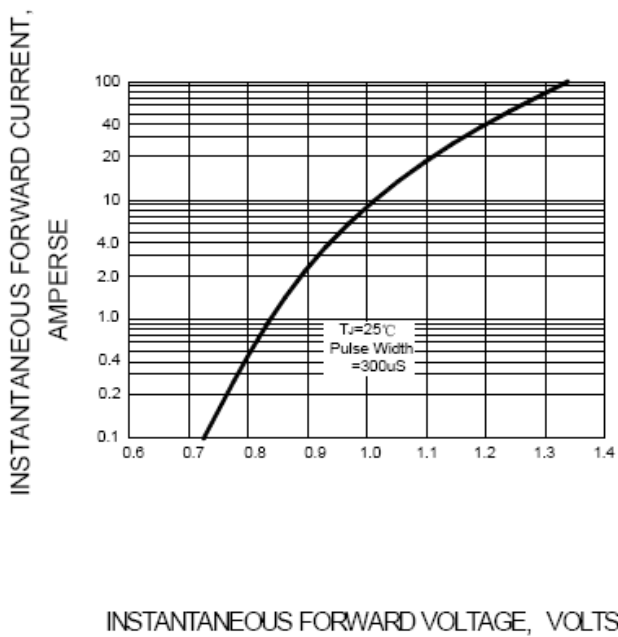


FIG.4 – TYPICAL REVERSE CHARACTERISTIC

