



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

**KBK15A
THRU
KBK15M**

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 15 Amperes

FEATURES

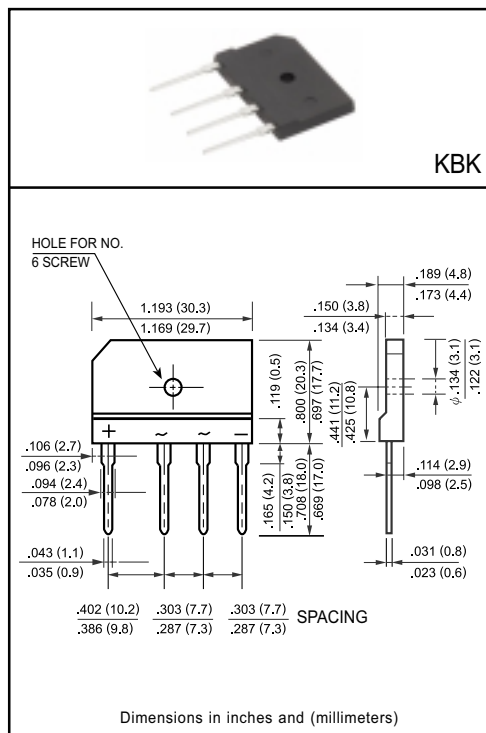
- * Low leakage
- * Low forward voltage
- * Surge overload rating: 240 Amperes peak
- * Ideal for printed circuit boards
- * High forward surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any
- * Weight: 6.6 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



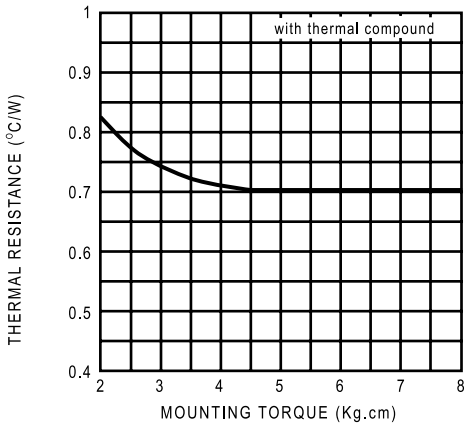
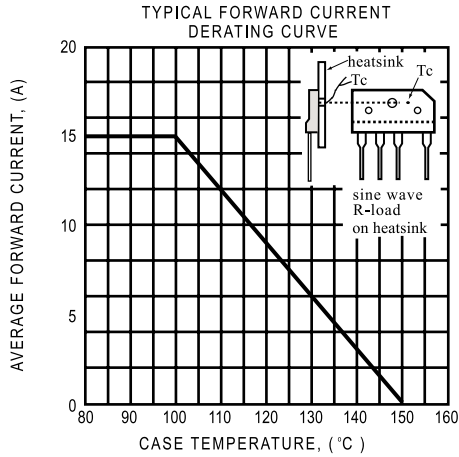
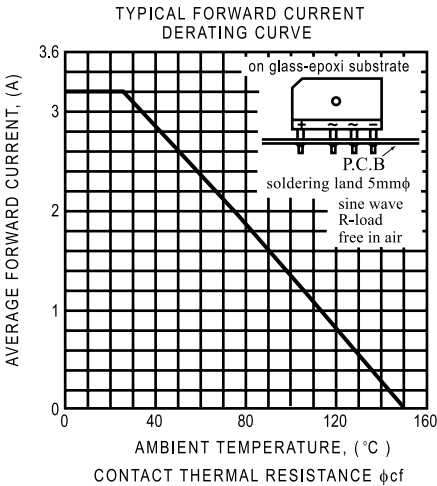
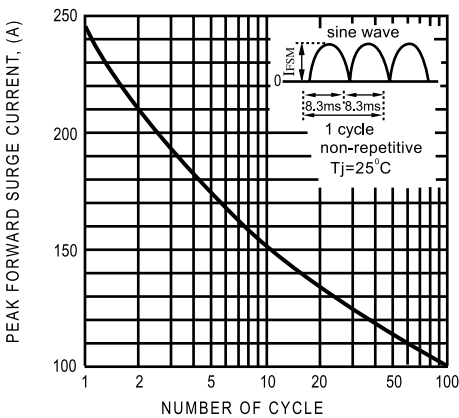
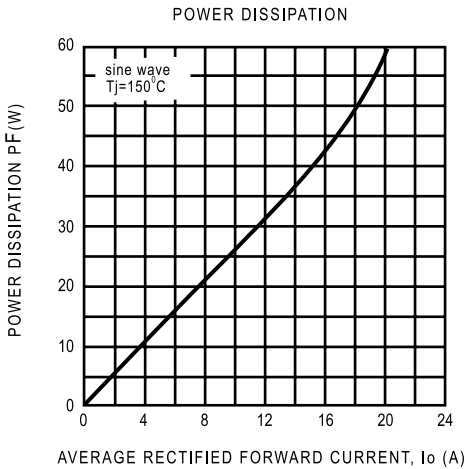
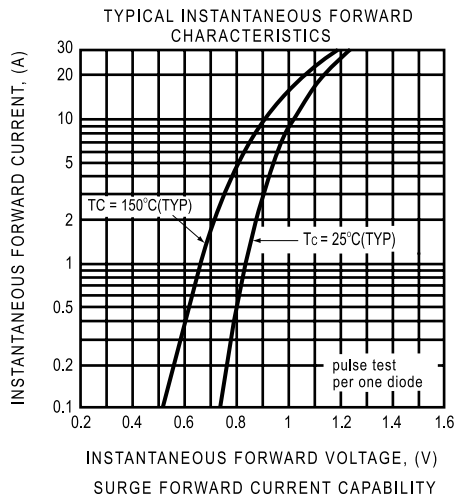
		SYMBOL	KBK15A	KBK15B	KBK15D	KBK15G	KBK15J	KBK15K	KBK15M	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at Tc = 100° C		Io	15							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	240							Amps
Maximum Forward Voltage Drop per element at 7.5 A DC		VF	1.1							Volts
Maximum DC Reverse Current at Rated	@TA = 25°C	IR	10							uAmps
DC Blocking Voltage per element	@TA = 100°C		500							
i²t Rating for Fusing (t<8.3ms)		i²t	240							A²Sec
Typical Junction Capacitance (Note1)		CJ	60							pF
Typical Thermal Resistance (Note 2)		RθJA	12							°C/W
Operating Temperature Range		TJ TSTG	-55 to + 150							°C

NOTES : 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from Junction to Case per element Unit mounted on 300x300x1.6mm Aluminum plate heat-sink.

RATING AND CHARACTERISTIC CURVES

(KBK15A THRU KBK15M)



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