

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

KBL / RS 005 / 401 THRU KBL / RS 10 / 407

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 4.0 Amperes

FEATURES

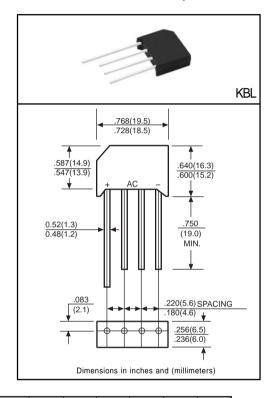
- * Ideal for printed circuitboard
- * Surge overload rating:125 Amperes peak
- * Molded structure
- * Glass passivated juncton

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting: position: Any
- * Weight: 4.8 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



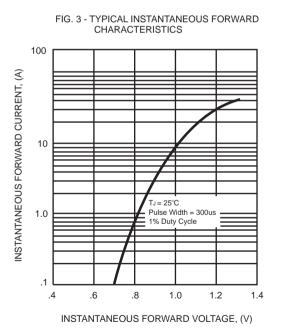
			KBL005	KBL01	KBL02	KBL04	KBL06	KBL08	KBL10	
		SYMBOL	RS401	RS402	RS403	RS404	RS405	RS406	RS407	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at T _A = 50 °C		lo	4.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	125						Amps	
Maximum Forward Voltage Drop per element at 4.0 A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated	@TJ = 25 °C	lr.	10							- uAmps
DC Blocking Voltage per element	@TJ = 100°C		500							
Operating Temperature Range		TJ	-55 to + 150							۰c
Storage Temperature Range		Тѕтс	-55 to + 150							°C

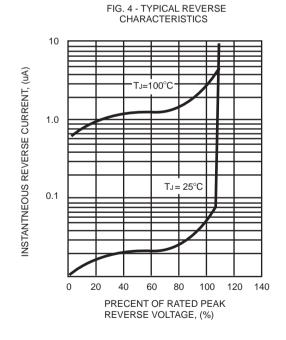
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RATING AND CHARACTERISTIC CURVES (KBL005 KBL10 THRU RS407)

FIG. 1 - MAXIMUM NON-REPETTIVE FORWARD SURGE CURRENT PEAK FORWARD SURGE CURRENT, (A) 300 250 8.3ms Single Half Sine-Wave (JEDEC Method) 200 150 100 50 0 2 5 10 20 50 100 1 NUMBER OF CYCLES AT 60Hz

FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE 5 AVERAGE FORWARD CURRENT, (A) 4 3 2 Single Phase Half Wave 60Hz Inductive or 1 Resistive Load 0 0 100 150 50 AMBIENT TEMPERATURE, (°C)





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