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DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

KBP / RS
005 / 201
THRU
KBP / RS
10 / 207

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER
VOLTAGE RANGE - 50 to 1000 Volts **CURRENT - 2.0 Amperes**

FEATURES

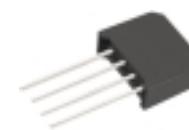
- * Ideal for printed circuit board
- * Surge overload rating: 50 Amperes peak

MECHANICAL DATA

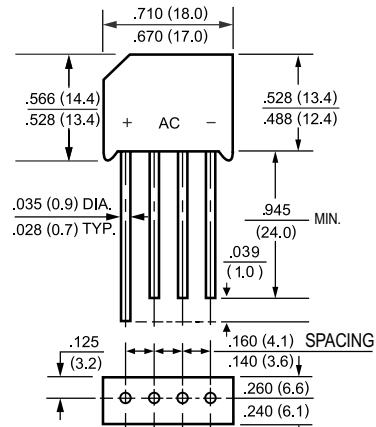
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any
- * Weight: 2.74 grams

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%.



RS-2



		KBP005	KBP01	KBP02	KBP04	KBP06	KBP08	KBP10	UNITS
Maximum Recurrent Peak Reverse Voltage	VR _{RRM}	RS201	RS202	RS203	RS204	RS205	RS206	RS207	Volts
Maximum RMS Bridge Input Voltage	VR _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current TA = 50°C	I _o				2.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}				50				Amps
Maximum Forward Voltage Drop per element at 1.0A DC	V _F				1.0				Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	@TA = 25°C @TA = 100°C	I _R			10				uAmps
I ² t Rating for Fusing (t<8.3ms)					500				
Typical Junction Capacitance (Note1)	C _J				10				A ² Sec
Operating Temperature Range	T _J				-55 to + 125				°C
Storage Temperature Range	T _{STG}				-55 to + 150				°C

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

2. Thermal Resistance from Junction to Ambient and from junction to lead mounted on P.C.B. with 0.47 x 0.47" (12x12mm) copper pads.

RATING AND CHARACTERISTIC CURVES

KBP005 THRU KBP10
 RS201 RS207

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

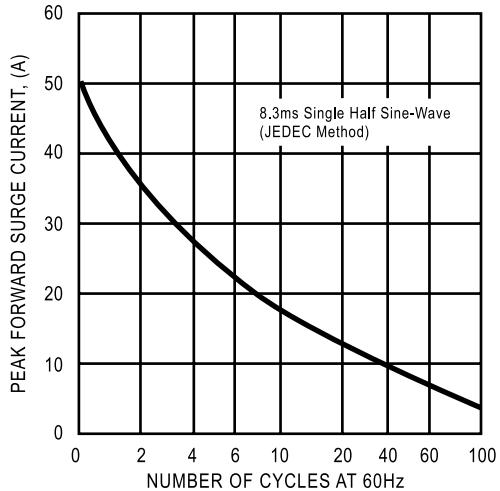


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

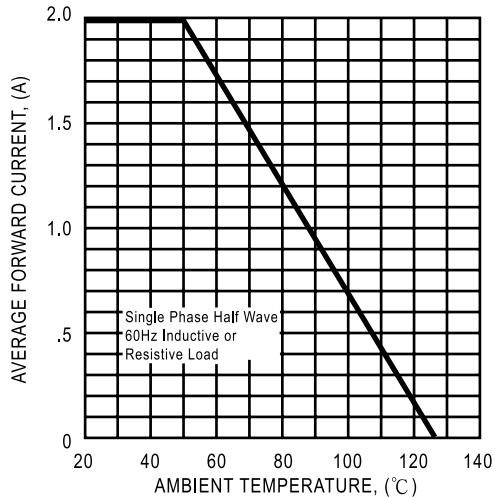


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

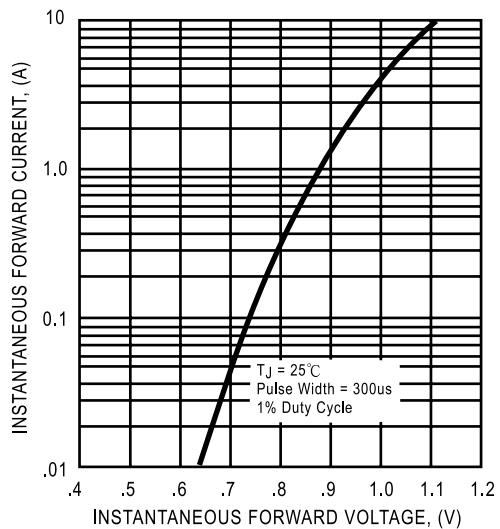
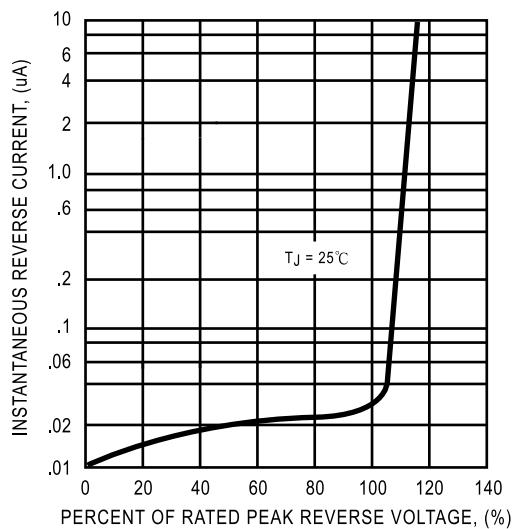


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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