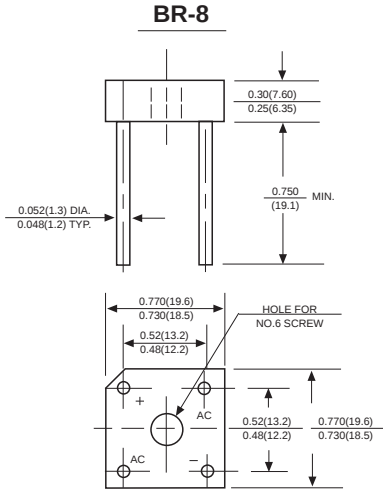




KBPC10005 THRU KBPC1010

SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current -10.0 Amperes



Dimensions in inches and (millimeters)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Ideal for printed circuit boards
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds, at 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols marked on case

Mounting: Thru hole for #6 screw, 5in.-lbs. torque max.

Weight: 0.20 ounce, 5.62 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

MDD Catalog Number		SYMBOLS	KBPC 10005	KBPC 1001	KBPC 1002	KBPC 1004	KBPC 1006	KBPC 1008	KBPC 1010	UNITS
Maximum repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage		V _{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 rectified current at	Tc=50°C (Note 1)	I _(AV)	10.0							Amps
	Tc=100°C (Note 1)		8.0							
	TA=50°C (Note 2)		8.0							
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	150.0							Amps
Rating for Fusing(t<8.3ms)		I ² t	64							A ² s
Maximum instantaneous forward voltage drop per bridge element at 5.0A		V _F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	10							μA
	TA=100°C		1.0							mA
Isolation voltage from case to leads		V _{ISO}	2500							V _{AC}
Typical Thermal Resistance (Note 1)		R _{θJA}	6.0							°C/W
Operating junction temperature range		T _J	-55 to +125							°C
storage temperature range		T _{STG}	-55 to +150							°C

NOTES:

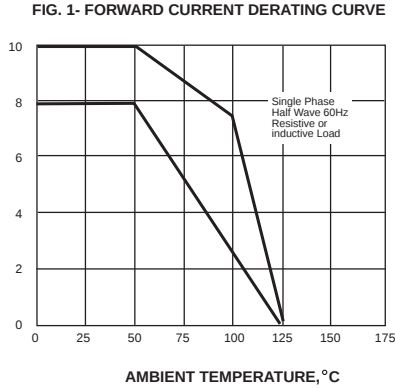
1. Unit mounted on 8.7 " x 8.7 " x 0.24 " thick (22x22x0.6cm) Al. plate.

2. Unit mounted on P.C. board with 0.47 " x 0.47 " (12x12mm) copper pads, 0.375 " (9.5mm) lead length.

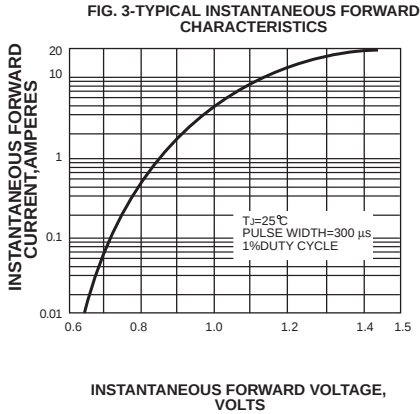
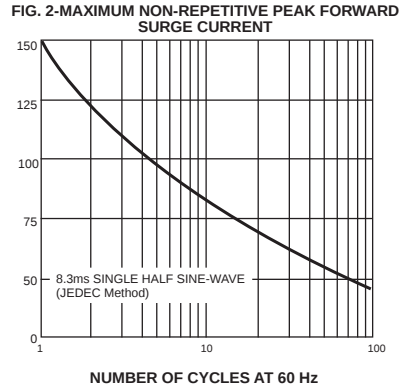


RATINGS AND CHARACTERISTIC CURVES KBPC10005 THRU KBPC1010

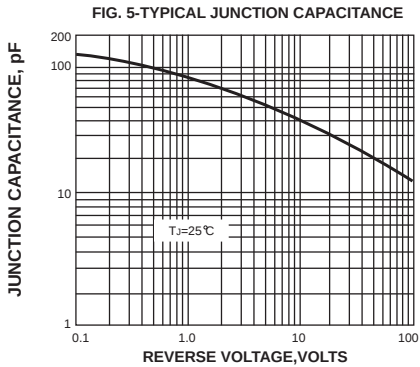
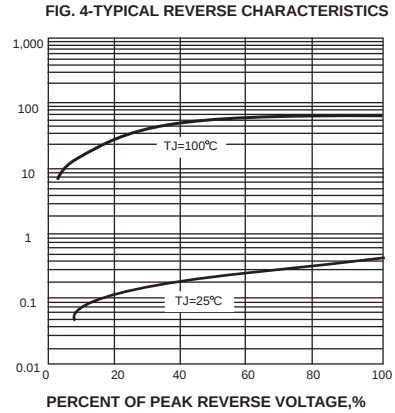
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



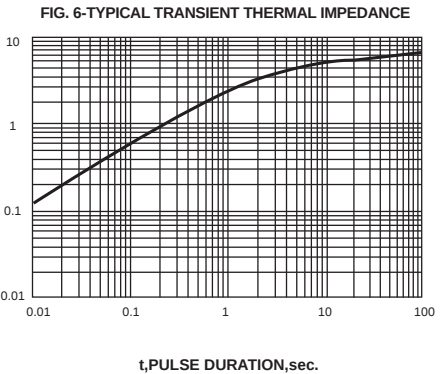
PEAK FORWARD SURGE CURRENT,
AMPERES



INSTANTANEOUS REVERSE CURRENT,
MICROAMPERES



TRANSIENT THERMAL IMPEDANCE,
°C/W



t,PULSE DURATION,sec.

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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