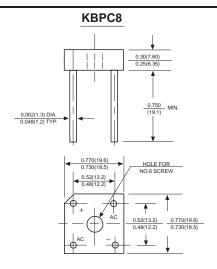


# **KBPC8005 THRU KBPC810**

## SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 8.0 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 serew, 5in.-lbs. torque max.

Weight: 0.200 unce, 5.62 grams

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

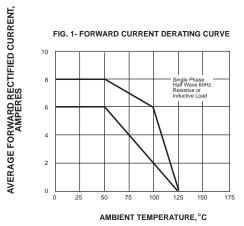
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load for capacitive load current derate by 20%.

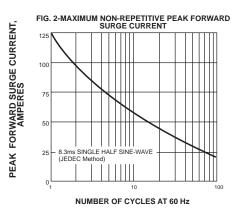
MDD Catalog Number		SYMBOLS	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	UNITS
Maximum repetitive peak reverse voltage		Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage		VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage		VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average	Tc=50°C (Note 1)	8.0								
forward output	Tc=100°C (Note 1)	l(AV) 6.0							Amps	
rectified current at	Ta=50°C (Note 2)		6.0							
Peak forward surge current										
8.3ms single half sine-wave superimposed on		IFSM	125.0							Amps
rated load (JEDEC Method)										
Rating for Fusing(t<8.3ms)		l <sup>2</sup> t	64						A <sup>2</sup> s	
Maximum instantaneous forward voltage drop		VF	1.1							Volts
per bridge element at 4.0A										
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C		lr -	10							μΑ
			1.0						mA	
Isolation voltage from case to leads		Viso	2500						Vac	
Typical Thermal Resistance (Note 1)		RθJA	6.0						°C/W	
Operating junction temperature range		Тл	-55 to +125						°C	
storage temperature range		Тѕтс	-55 to +150							°C

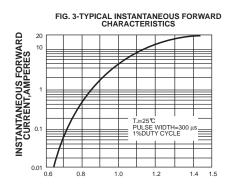
- 1.Unit mounted on 8.7" x 8.7" x0.24" thick(22x22x0.6cm)Al.plate.
  2.Unit mounted on P.C. board with 0.47" x 0.47" (12x12mm) copper pads,0.375" (9.5mm) lead length.

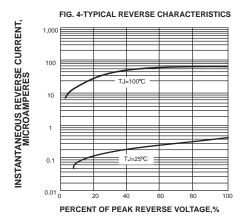
# MDD ELECTRONIC

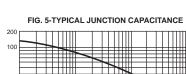
### RATINGS AND CHARACTERISTIC CURVES KBPC8005 THRU KBPC810









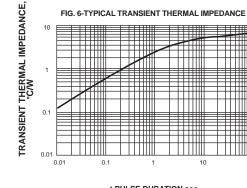


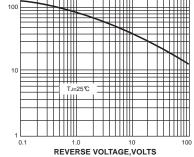
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JUNCTION CAPACITANCE,

INSTANTANEOUS FORWARD VOLTAGE.

VOLTS





t,PULSE DURATION,sec.

10

100

# MDD ELECTRONIC