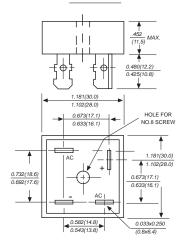


# **KBPC35005 THRU KBPC3510**

## SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 35.0 Amperes

#### KBPC-25



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:Metal case

**Terminals**: Plated 0.25" (6.35mm)lug.

Polarity: Polarity symbols marked on case

**Mounting**: Thru hole for #8 screw, 20in.-lbs. torque max.

Weight: 1.02 ounce, 29 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 current capacitive load current derate by 20%.

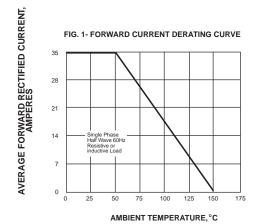
			-						
Catalog Number	SYMBOLS	KBPC 35005	KBPC 3501	KBPC 3502	KBPC 3504	KBPC 3506	KBPC 3508	KBPC 3510	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward output rectified		35							Amps
current at Tc=50°C (Note 1,2)	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	IFSM 400.0							Amps
rated load (JEDEC Method)									
Rating for Fusing(t<8.3ms)	l <sup>2</sup> t	664							A <sup>2</sup> s
Maximum instantaneous forward voltage dorp	VF	1.1							Volts
per bridge element at 17.5A	VF								
Maximum DC reverse current Ta=25°C	l <sub>R</sub>	10							μΑ
at rated DC blocking voltage Ta=100℃	IK IK	1.0							mA
Isolation voltage from case to leads	Viso	2500							Vac
Typical Thermal Resistance (Note 2)	RθJA	2.0							°C/W
Operating junction temperature range	TJ	-65 to +150							°C
storage temperature range	Тѕтс	-65 to +150							°C

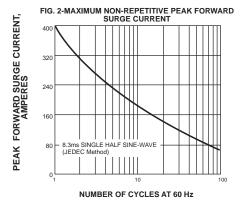
#### NOTES

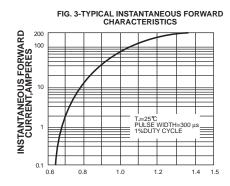
1. Unit mounted on 9" x 3.5" x4.6" thick(23cmx9cmx11.8cmcm)Al.plate.

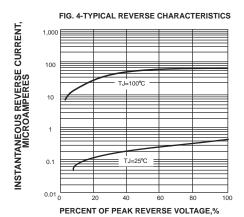
2.Bolt dowm on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #8 screw.

#### RATINGS AND CHARACTERISTIC CURVES KBPC35005 THRU KBPC3510

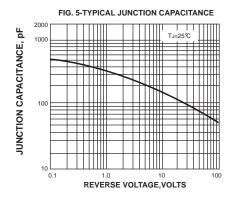


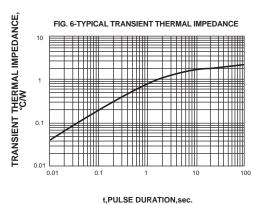












The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!