

KBPC601 THRU KBPC610 KBPC-6

6A HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIER

Voltage - 100 to 1000 V

Forward Current -6 A

FEATURES

- ♦High temperature metallurgically bonded internal rectifiers
- ♦Typical IR less than .1 uA
- ♦The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- ♦High temperature soldering guaranteed 265 /10 seconds at 5 lbs (2.3kg) tension
- ♦Lead free in comply with EU RoHS 2011/65/EU directives



♦Case: **кврс-6**

♦Terminals: Solderable per MIL-STD-202, Method 208

♦Weight: 3.8 grams (approx)

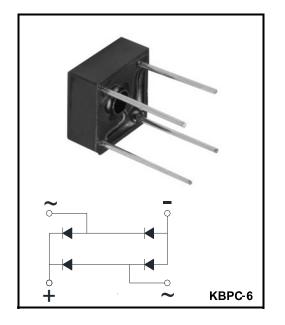


Rating at 25 c ambient temperature unless otherwise specified, Resistive or Inductive load,

60 Hz.For Capacitive load derate current by 20%

Parameter	Symbols	KBPC601	KBPC602	KBPC604	KBPC606	KBPC608	KBPC610	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at TC=75°C(1)	I _(AV)	6.0					Α	
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	125				Α		
Rating for fusing (t<8.3ms)	I 2 t	10				A ² sec		
Typical thermal resistance per element (2)	ReJA	9.4				C/W		
Typical junction capacitance per element(3)	Cj	55			pF			
Maximum instantaneous forward voltage drop per leg at 3.0A	V _F	1.1				V		
Maximum DC reverse current at rated TA=25°C		10					μA	
DC blocking voltage per element TA=100℃	I _R	1000					<u>.</u>	
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150			°C			

- (1) Mounted on metal chassis.
- (2) Non-repetitive, for t>1ms and < 8.3ms.
- (3) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.





Ratings And Characteristic Curves

Fig. 1 Derating Curve for Output Rectified Current

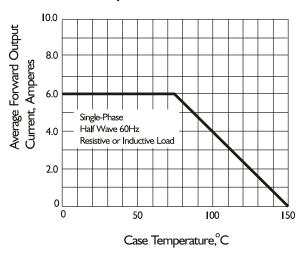


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

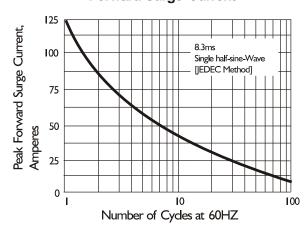


Fig. 3 Typical Instantaneous Forward Characteristics

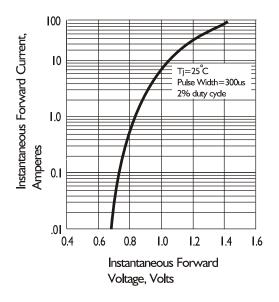
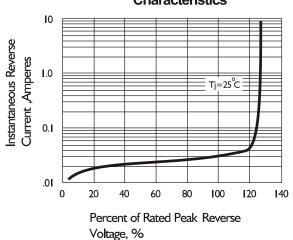


Fig. 4 Typical Reverse Characteristics



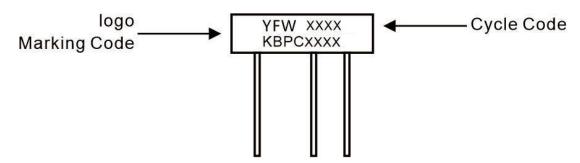
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Marking Diagram

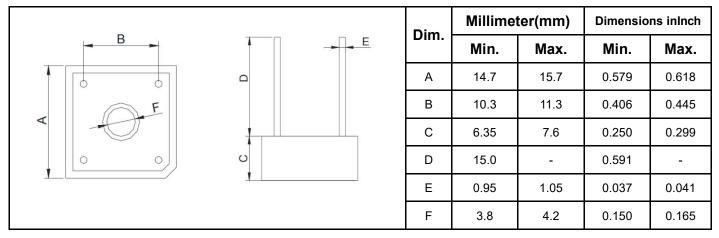


Ordering information

Package	Packing Description	Packing Quantity		
KBPC-6	bulk	200PCS/Box 2000PCS/Carton		

Package Dimensions

KBPC-6







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