

KBPC8005 THRU KBPC810

Single-Phase Silicon Bridge Rectifiers

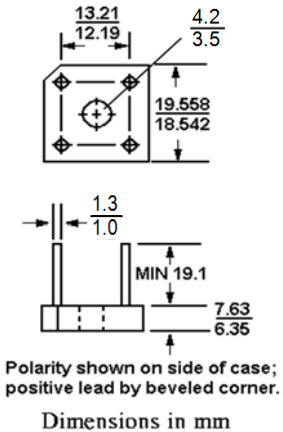
Reverse Voltage - 50 to 1000 V

Forward Current - 8 A

Features

- Surge overload rating-125 A peak
- Low forward voltage drop
- Small Size: simple installation
- Mounting Position: Any

KBPC-8



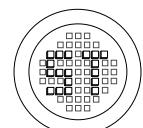
Absolute Maximum Ratings and Characteristics

Rating at $T_a = 25^\circ\text{C}$ ambient temperature unless otherwise specified.

For capacitive load, derate current by 20%.

Parameter	Symbols	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	Units
	Marking	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at $T_c = 100^\circ\text{C}$ ¹⁾	$I_{F(AV)}$	8							A
Peak Forward Surge Current, 8.3ms Single half sine-wave Superimposed on Rated Load	I_{FSM}	125							A
Maximum Forward Voltage Drop per Bridge Element at 4 A	V_F	1.1							V
Maximum Reverse Current at Rated	I_R	10							μA
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	6							$^\circ\text{C/W}$
Operating Junction Temperature Range	T_j	- 55 to + 150							$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150							$^\circ\text{C}$

¹⁾ Unit mounted on metal chassis.



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