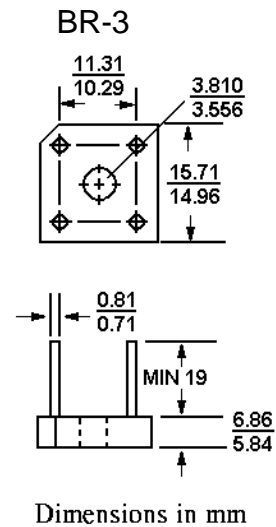


KBPC1005 THRU KBPC110

3 A Single-phase Silicon Bridge Rectifiers

Features

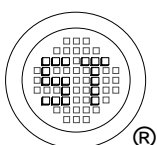
- Low forward voltage drop
- Small size: simple installation
- Tinned copper leads
- Mounting Position: Any



Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	KBPC 1005	KBPC 101	KBPC 102	KBPC 104	KBPC 106	KBPC 108	KBPC 110	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current $T_C = 50\text{ }^\circ\text{C}$ $T_C = 100\text{ }^\circ\text{C}$ $T_A = 50\text{ }^\circ\text{C}$	$I_{F(AV)}$	3 2 2							A
Peak Forward Surge Current 8.3 ms Single half sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage 1.5 A	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25\text{ }^\circ\text{C}$ $T_A = 100\text{ }^\circ\text{C}$	I_R	10 1							μA mA
Operating temperature Range	T_j	- 55 to + 125							$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150							$^\circ\text{C}$



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FIG.1-MAXIMUM FORWARD SURGE CURRENT

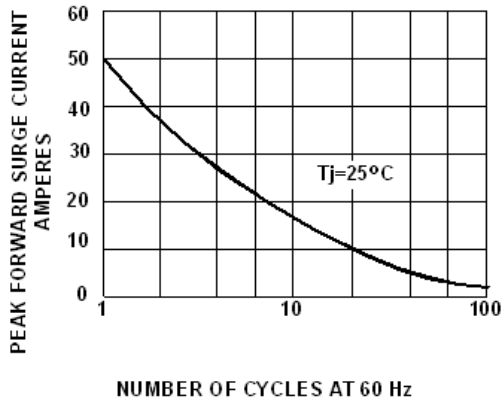


FIG.2-DE-RATING CURVE FOR OUTPUT RECTIFIED CURRENT

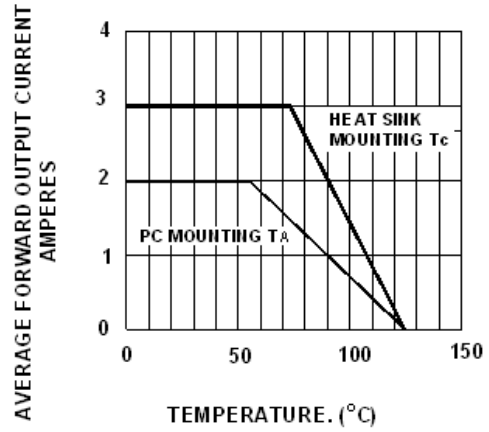


FIG.3-TYPICAL FORWARD CHARACTERISTICS

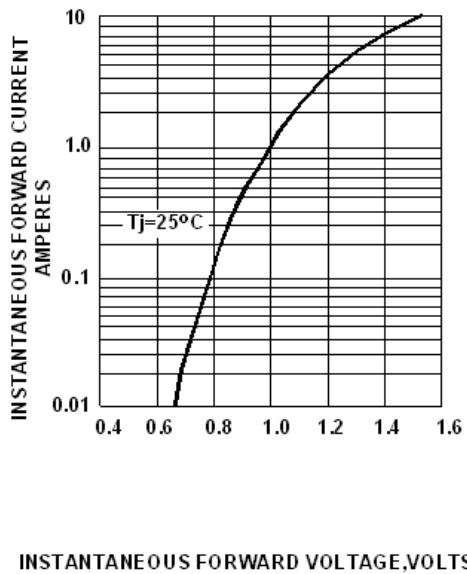
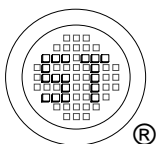
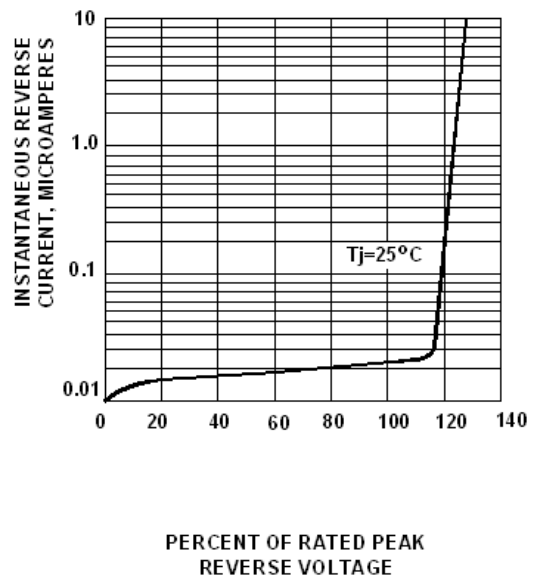


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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ISO/TS 16949 : 2002
Certificate No. 05103

ISO14001 : 2004
Certificate No. 7116

ISO 9001 : 2008
Certificate No. 0509098

BS-OHSAS 18001 : 2007
Certificate No. 7116

IECQ QC 080000
Certificate No. RC299-1851