

KBPC10005~KBPC1010

SINGLE-PHASE SILICON BRIDGE RECTIFIERS

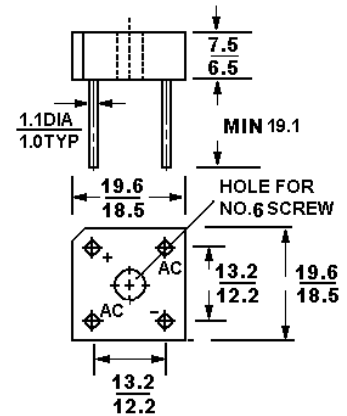
REVERSE VOLTAGE: 50V to 1000 V

FORWARD CURRENT: 10A

KBPC-8

Features

- Reliable low cost construction
- Ideal for printed circuit board
- Low forward voltage drop
- Low reverse leakage current
- High surge current capability



Dimensions in mm

MECHANICAL DATA

Case: Molded plastic, KBPC-8

Epoxy: UL 94V-0 rate flame retardant

Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed.

Absolute Maximum Ratings and Characteristics

Rating at 25°C ambient temperature unless otherwise specified. resistive or inductive load 60 Hz,.

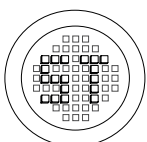
For capacitive load current by 20%.

Characteristic	KBPC 10005	KBPC 1001	KBPC 1002	KBPC 1004	KBPC 1006	KBPC 1008	KBPC 1010	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_C = 50^\circ\text{C}$	10							A
Peak Forward Surge Current, 8.3ms single half Sine-wave superimposed on rated load (JEDEC)	200							A
Maximum Forward Voltage Drop per element at 5A DC and 25?	1.2							V
Maximum Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$	10 500							μA
Typical Junction Capacitance (Note 1)	200							pF
Typical Thermal Resistance (Note 2)	25							? /W
Typical Thermal Resistance (Note 3)	5							? /W
Operating Temperature Range T_J	-55 to +125							?
Storage Temperature Range T_S	-55 to +125							?

Notes: 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2. Unit mounted on 8.6 x 8.6 x 0.24" thick (22 x 22 x 0.6cm) Al, Plate.

3. Unit mounted on P.C.B. at 0.375" (9.5mm) lead length with 0.5 x 0.5" (12 x 12mm) copper pads.

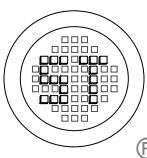
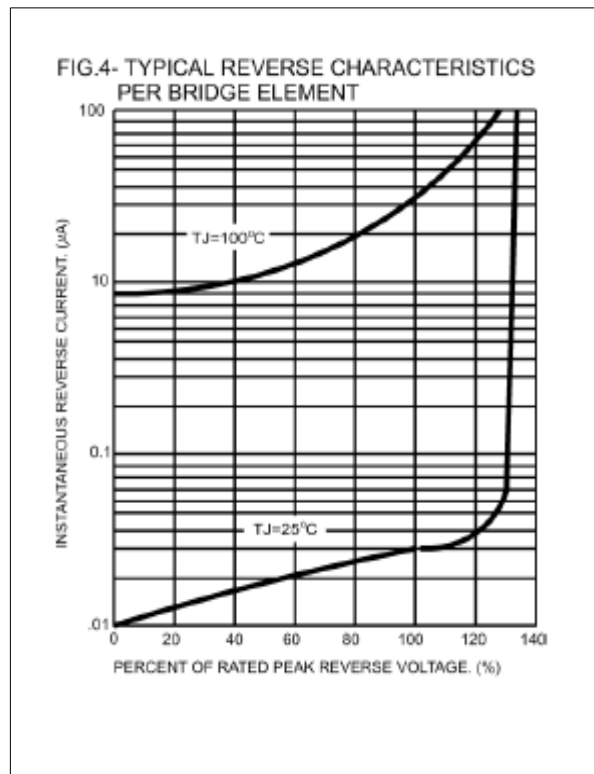
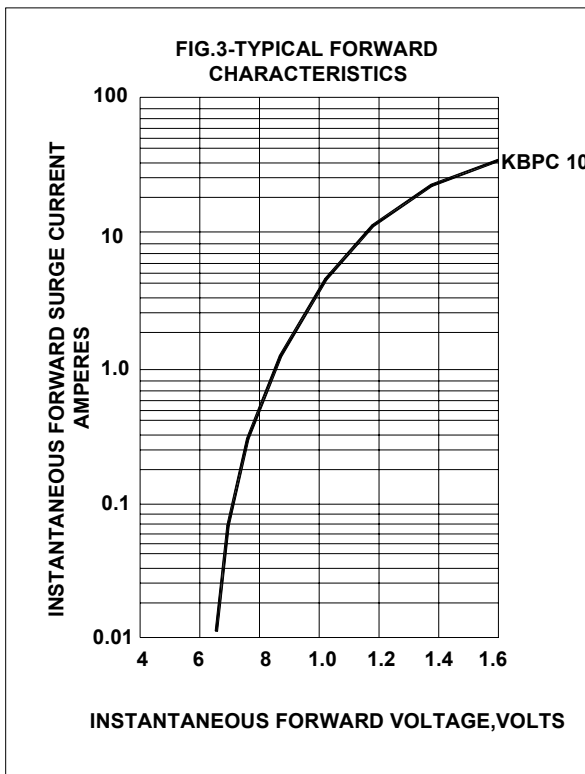
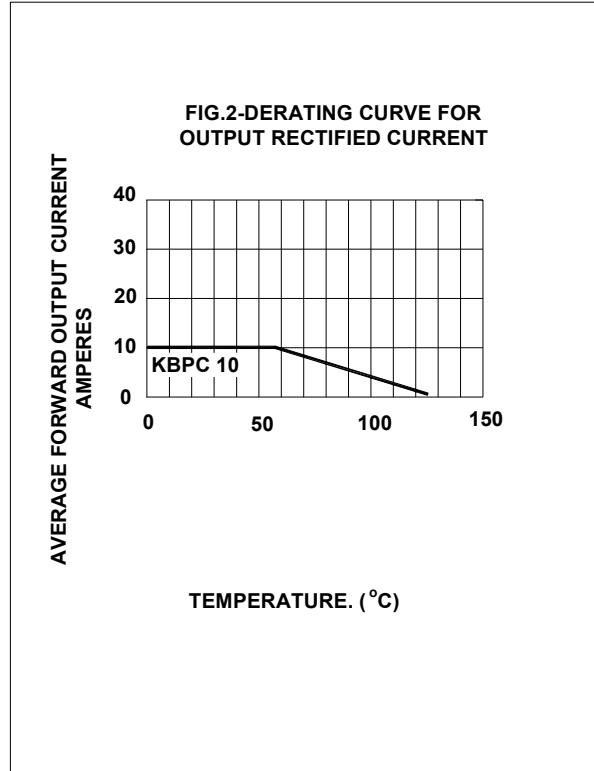
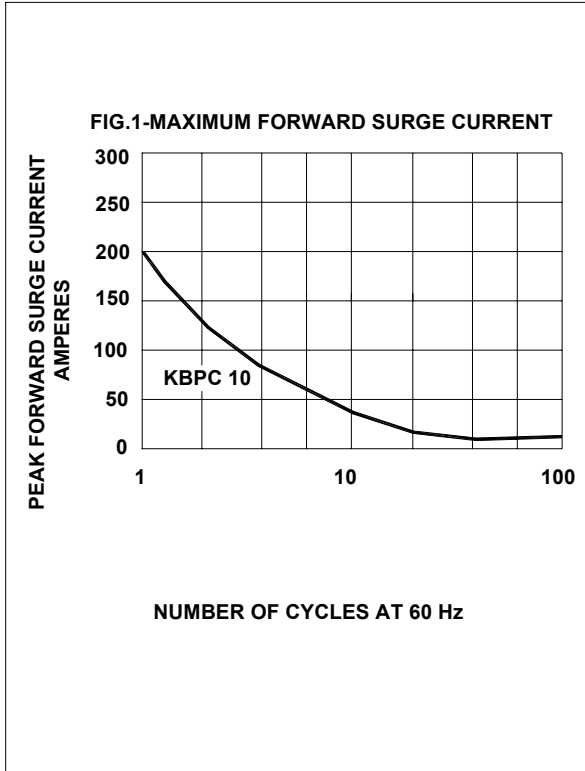


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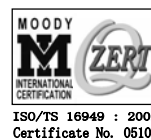
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RATINGS AND CHARACTERISTIC CURVES



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 6509-1999-00-002-001

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