

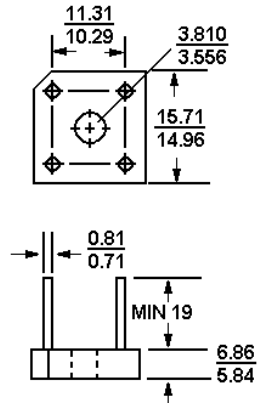
# KBPC1005 THRU KBPC110

## 3A SINGLE-PHASE SILICON BRIDGE RECTIFIERS

### Features

- Surge overload rating-50 amperes peak
- Low forward voltage drop
- Small size: simple installation
- Tinned copper leads
- Mounting Position: Any

VOLTAGE RANGE  
50 to 1000 Volts PRV  
CURRENT  
3.0 Amperes



Dimensions in mm

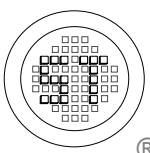
### Absolute Maximum Ratings and Characteristics

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%.

	KBPC 1005	KBPC 101	KBPC 102	KBPC 104	KBPC 106	KBPC 108	KBPC 110	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Output Current	3 2 2							A
$T_C = 50^\circ\text{C}^*$								A
$T_C = 100^\circ\text{C}^*$ $T_A = 50^\circ\text{C}^{**}$								A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	50							A
Maximum Forward Voltage Drop per Bridge Element at 1.5A Peak	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage per Element	10 1							$T_A = 25^\circ\text{C}$ uA
$T_A = 100^\circ\text{C}$								mA
Operating Temperature Range $T_C$	-55 to +125							$^\circ\text{C}$
Storage Temperature Range $T_A$	-55 to +150							$^\circ\text{C}$

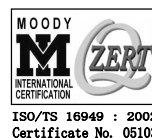
Notes: \* Unit mounted on metal chassis

\*\* Unit mounted on P.C. board



## 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



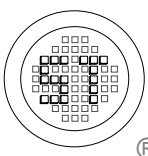
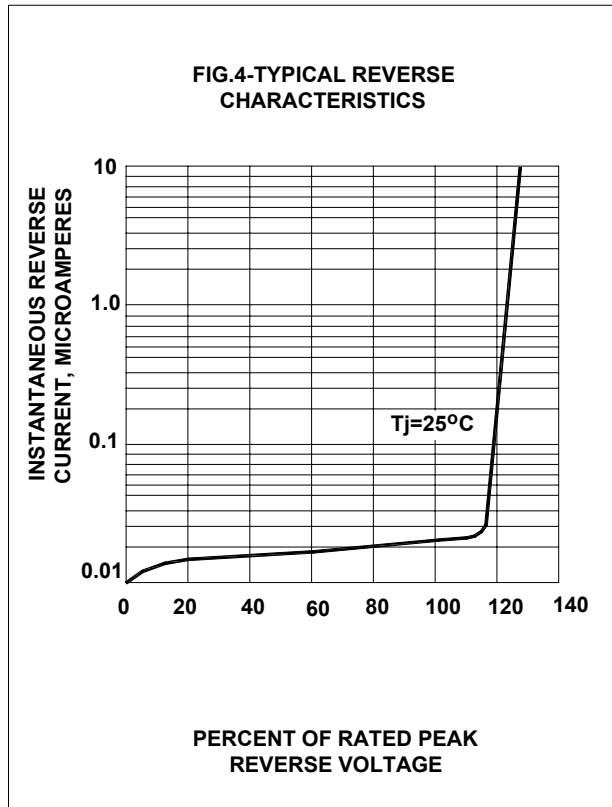
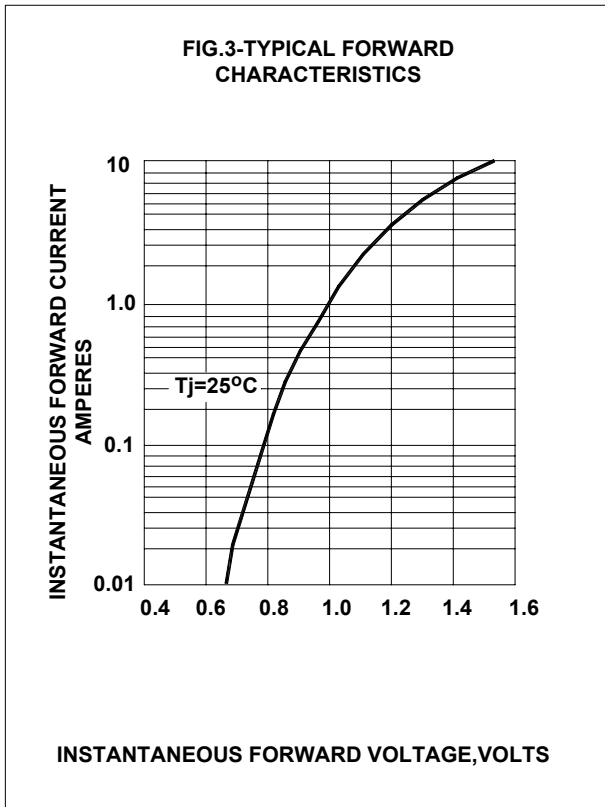
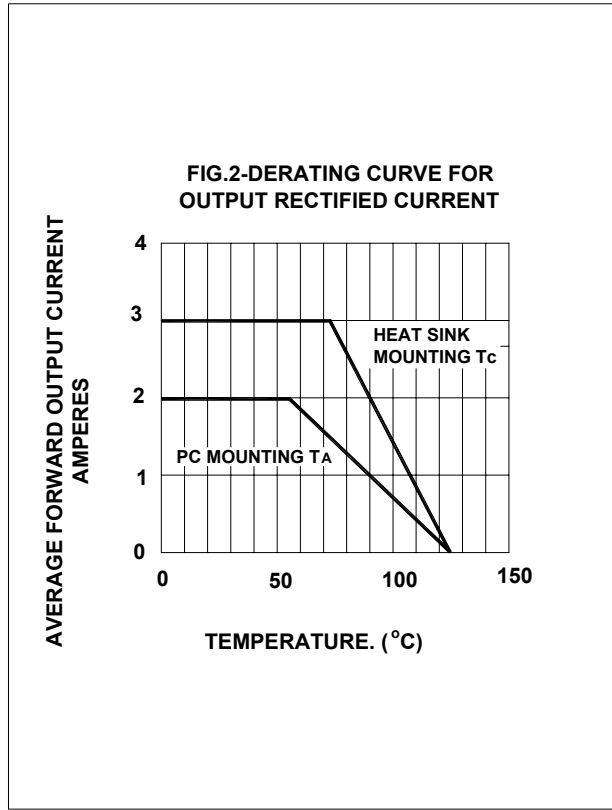
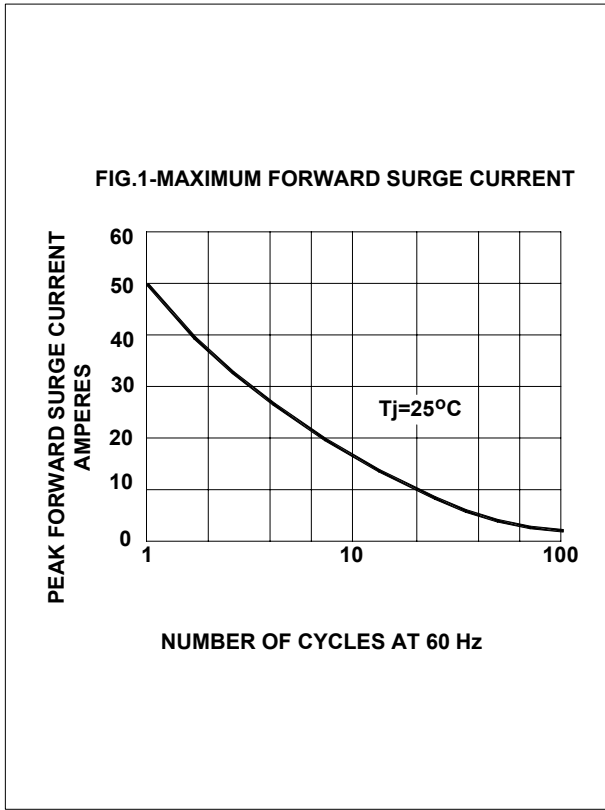
ISO 14001  
Certificate No. 7116



ISO 9001 : 2000  
Certificate No. 558-199-0403-04

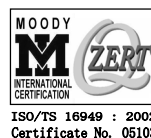
Dated : 03/10/2003

RATINGS AND CHARACTERISTIC CURVES (KBPC1 SERIES)



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ISO/TS 16949 : 2002  
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ISO 14001  
Certificate No. 7116

ISO 9001 : 2000  
Certificate No. 558-199-02-01

Dated : 03/10/2003