

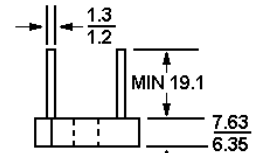
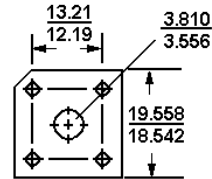
# KBPC8005 THRU KBPC810

## 8A SINGLE-PHASE SILICON BRIDGE RECTIFIERS

### Features

- Surge overload rating-125 amperes peak
- Low forward voltage drop
- Small size: simple installation
- Silver Plated Copper leads
- Mounting Position: Any

VOLTAGE RANGE  
50 to 1000 Volts PRV  
CURRENT  
8 Amperes



Polarity shown on side of case;  
positive lead by beveled corner.

Dimensions in mm

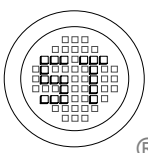
### Absolute Maximum Ratings and Characteristics

Rating at 25°C ambient temperature unless otherwise specified.  
For capacitive load, derate current by 20%.

	KBPC 8005	KBPC 801	KBPC 802	KBPC 804	KBPC 806	KBPC 808	KBPC 810	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 at $T_C = 100^\circ\text{C}^*$ $T_A = 40^\circ\text{C}^{**}$	8							A
	3							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	125							A
Maximum Forward Voltage Drop per Bridge element at 4.0A Peak.	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage per element $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	10							uA
	1							mA
Operating Temperature Range $T_C$	-55 to +125							°C
Storage Temperature Range $T_A$	-55 to +150							°C

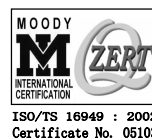
Notes: \* Unit mounted on metal chassis

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



**SEMTECH ELECTRONICS LTD.**

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ISO/TS 16949 : 2002  
Certificate No. 05103



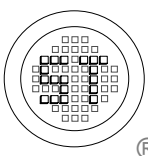
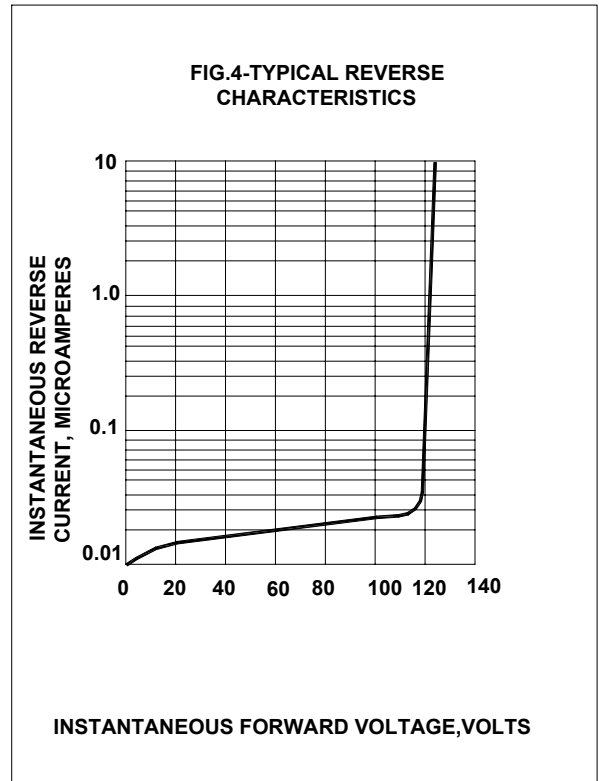
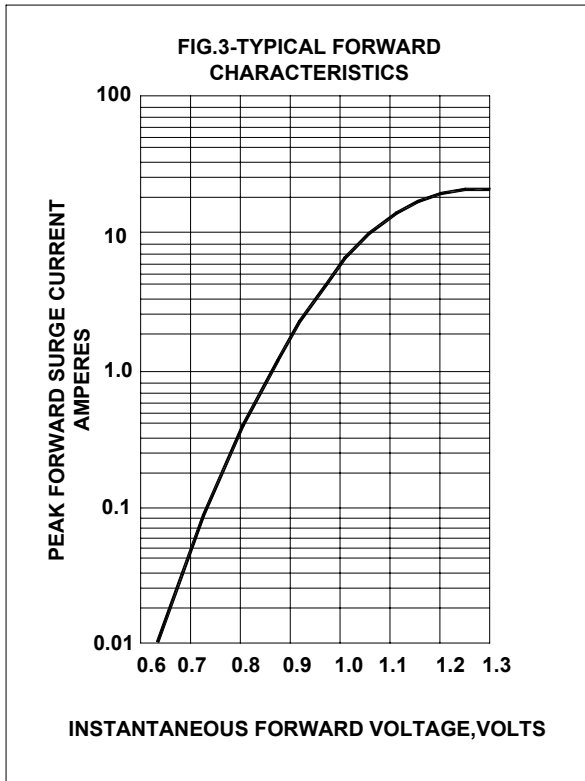
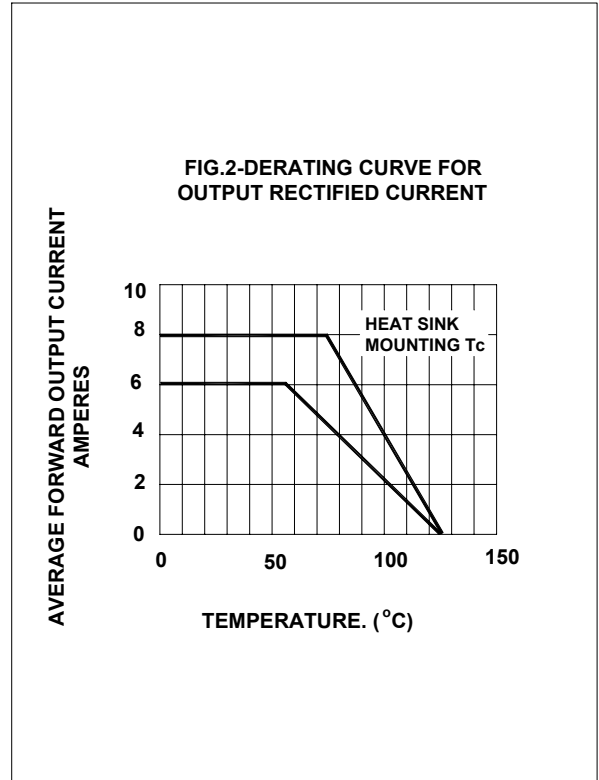
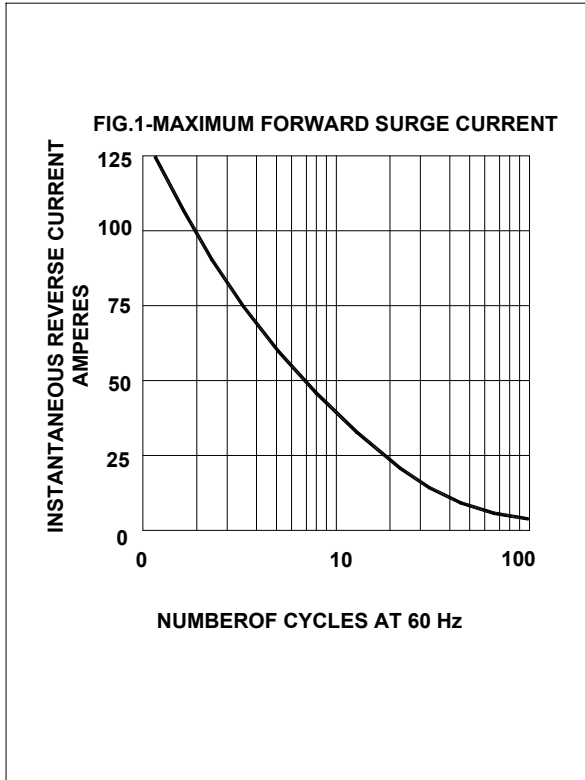
ISO 14001  
Certificate No. 7116



ISO 9001 : 2000  
Certificate No. 558-199-002-01

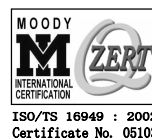
Dated : 03/10/2003

## RATINGS AND CHARACTERISTIC CURVES (KBPC8 SERIES)



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Dated : 03/10/2003