

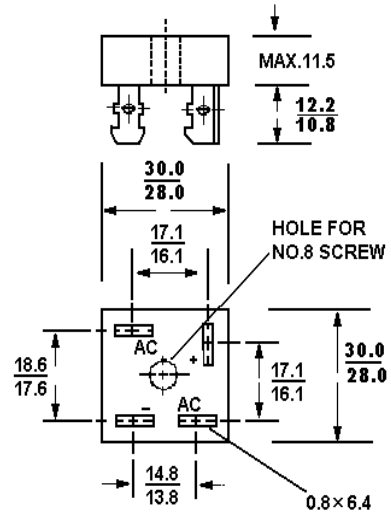
KBPC25005~KBPC2510

HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIERS
REVERSE VOLTAGE: 50V to 1000V
FORWARD CURRENT: 25A

KBPC

Features

- Surge overload 300 Amperes peak
- Low power loss, high efficiency
- Low reverse leakage current



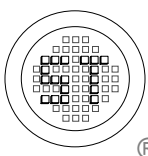
Dimensions in mm

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%.

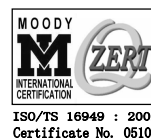
Characteristic	KBPC 25005	KBPC 2501	KBPC 2502	KBPC 2504	KBPC 2506	KBPC 2508	KBPC 2510	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _C = 55 °C	25							A
Peak Forward Surge Current, 8.3ms single half Sine-wave superimposed on rated load	300							A
Maximum Forward Voltage at 12.5A DC and 25°C	1.2							V
Maximum Reverse Current at T _A = 25°C at Rated DC Blocking Voltage T _A = 125°C	10 1000							uA
Typical Junction Capacitance (Note 1)	300							pF
Typical Thermal Resistance (Note 2)	1.9							°C/W
Operating Temperature Range T _J	-55 to +125							°C
Storage Temperature Range T _S	-55 to +150							°C

Notes: 1. Measured at 1 MHz and applied reverse voltage of 4.0VDC.
 2. Thermal resistance from junction t case per leg.



SEMTECH ELECTRONICS LTD.

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ISO/TS 16949 : 2002
 Certificate No. 05103



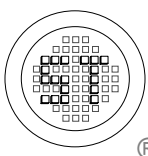
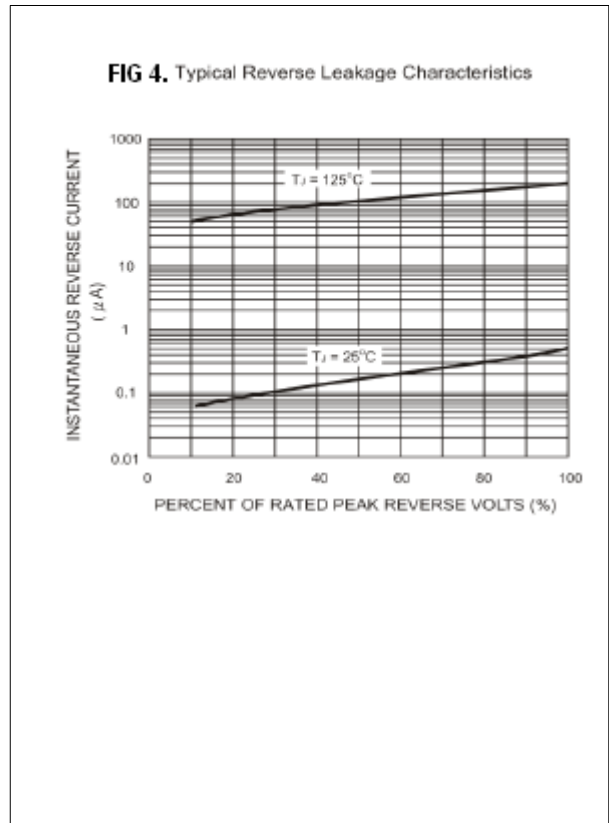
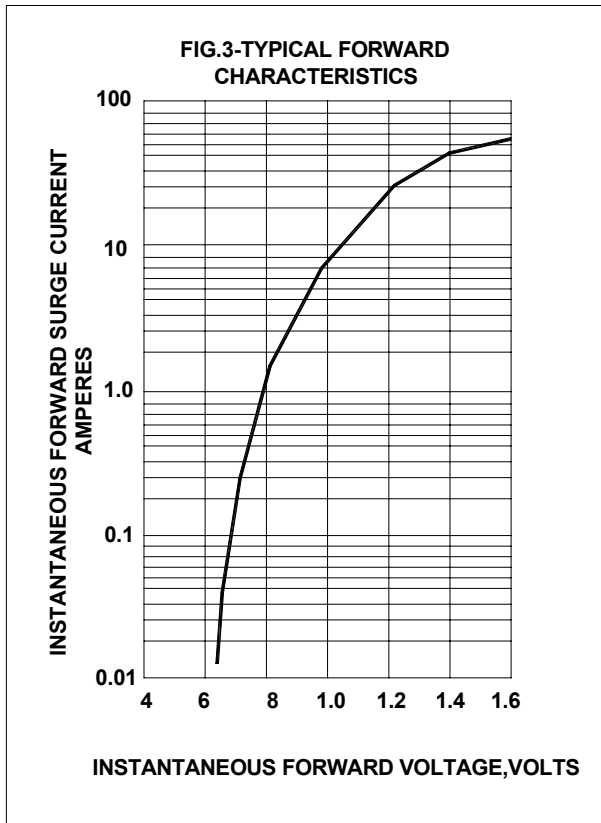
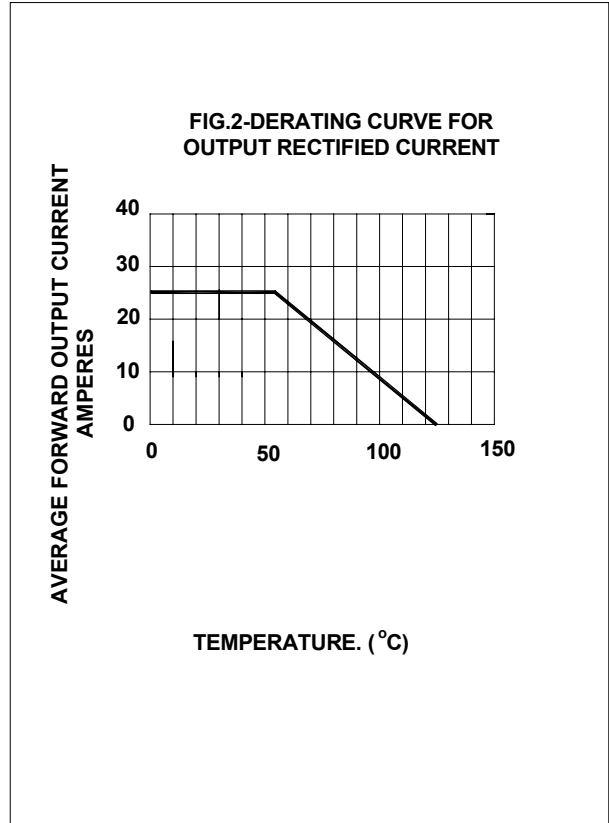
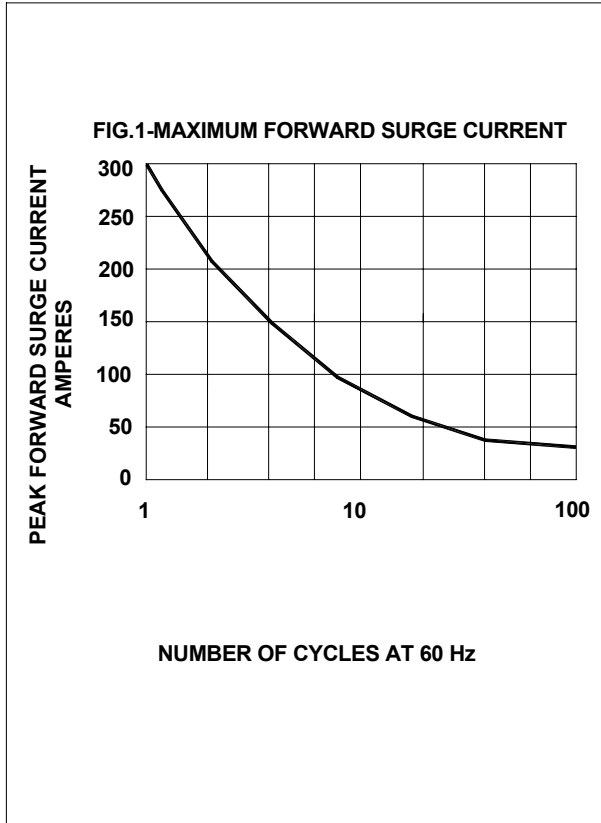
ISO 14001
 Certificate No. 7116



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

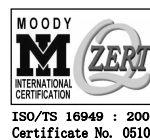
Dated : 19/07/2005

RATINGS AND CHARACTERISTIC CURVES



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ISO/TS 16949 : 2002
Certificate No. 05103

ISO 14001
Certificate No. 7116

ISO 9001 : 2000
Certificate No. 5529-1999-02-002-Int

Dated : 19/07/2005