

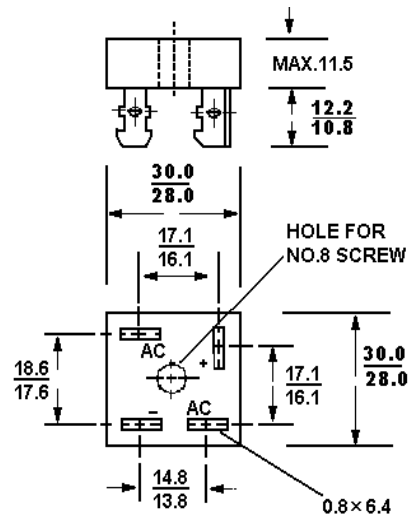
KBPC35005~KBPC3510

HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIERS REVERSE VOLTAGE: 50V to 1000V FORWARD CURRENT: 35A

KBPC

Features

- Low power loss, high efficiency
- Low reverse leakage current
- Mounting Position: Any



Dimensions in mm

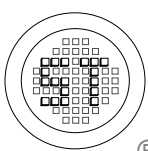
Absolute Maximum Ratings and Characteristics

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

Characteristic	KBPC 35005	KBPC 3501	KBPC 3502	KBPC 3504	KBPC 3506	KBPC 3508	KBPC 3510	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 $T_c = 55^\circ\text{C}$	35							A
Peak Forward Surge Current, 8.3ms single half Sine-wave superimposed on rated load	400							A
Maximum Forward Voltage at 17.5A DC and 25°C	1.2							V
Maximum Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 125^\circ\text{C}$	10 1000							uA
Typical Junction Capacitance (Note 1)	300							pF
Typical Thermal Resistance (Note 2)	1.4							°C/W
Operating Temperature Range T_J	-55 to +125							°C
Storage Temperature Range T_S	-55 to +150							°C

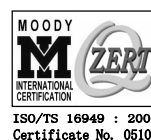
Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0VDC.

2. Thermal resistance from junction to case per leg.



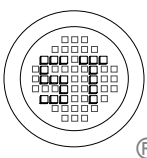
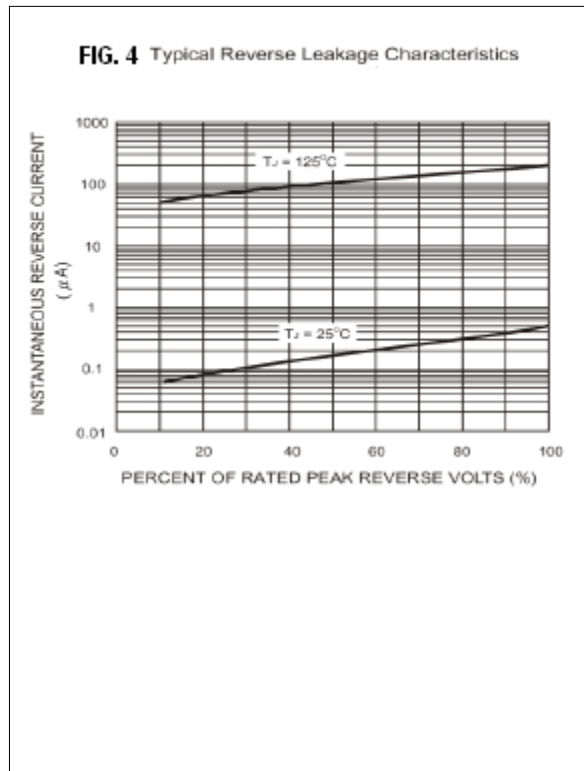
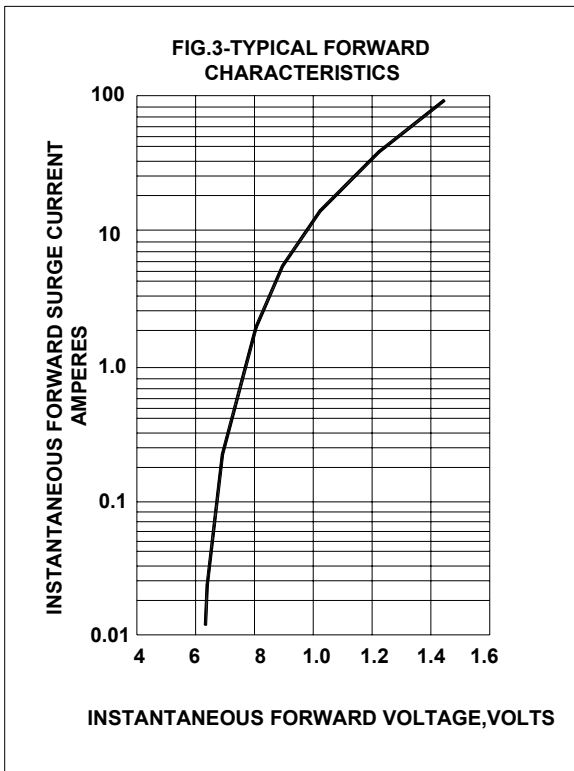
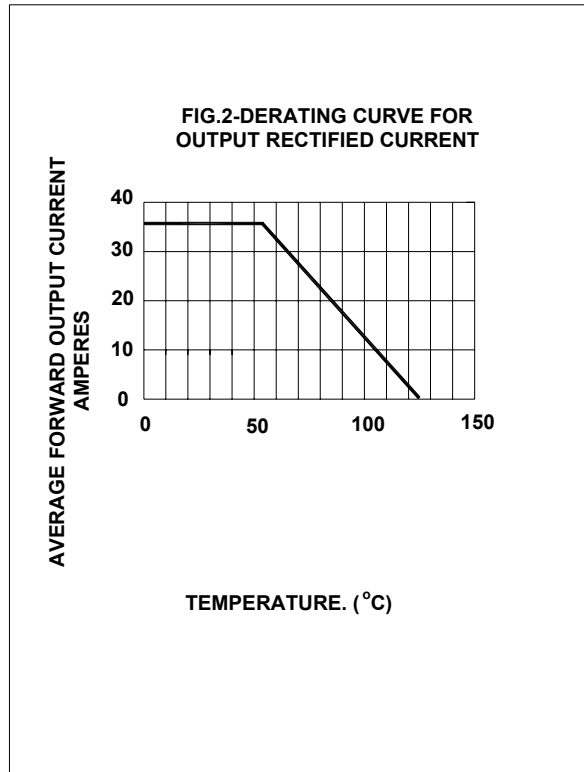
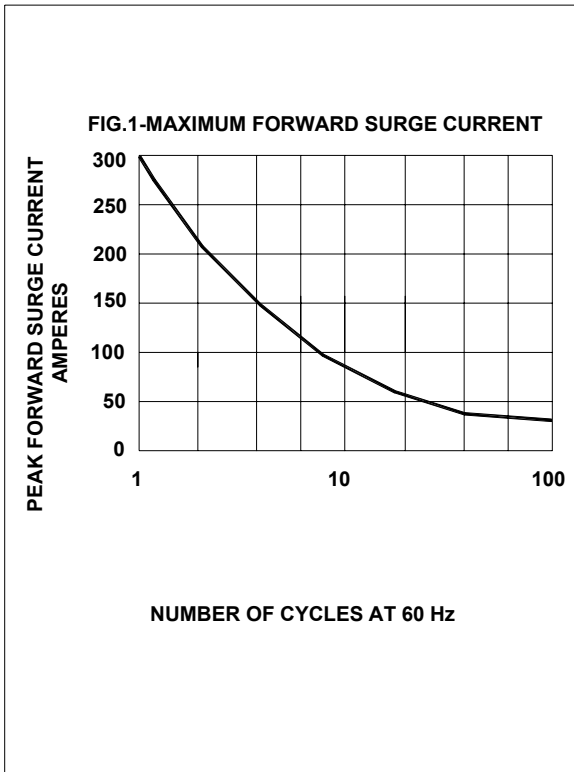
SEMTECH ELECTRONICS LTD.

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



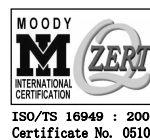
Dated : 19/07/2005

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. 6509-1999-40-002-Int

Dated : 19/07/2005