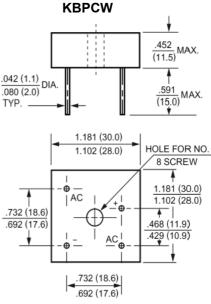
#### HIGH CURRENT SINGLE-PHASE SILICON BRIDGE RECTIFIERS REVERSE VOLTAGE: 50 to 1000 V FORWARD CURRENT: 35 A

### Features

- Electrically isolated metal case for maximum heat dissipation
- Surge overload ratings to 500 A
- Low power loss, high efficiency
- Low reverse leakage current
- Case to terminal isolation voltage 2500 V
- UL recognized file # E-216968



## Mechanical data

- Metal or molded plastic with heatsink integrally mounted in the bridge encapsulation
- Mounting Position: Any

Dimensions in inches and (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%.

Parameter	Symbols	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	KBPC	I I Inits
		35005W	3501W	3502W	3504W	3506W	3508W	3510W	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{\text{RMS}}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_{C}$ = 55 °C	I <sub>(AV)</sub>	35							A
Peak Forward Surge Current, 8.3 ms Single Half-Sine -Wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	400							A
Maximum Forward Voltage at 17.5 A DC and 25 $^{\circ}\text{C}$	V <sub>F</sub>	1.2							V
Maximum Reverse Current at $T_A = 25 ^{\circ}C$ at Rated DC Blocking Voltage $T_A = 125 ^{\circ}C$	I <sub>R</sub>	10 1000							μA
Typical Junction Capacitance <sup>1)</sup>	CJ	300							pF
Typical Thermal Resistance <sup>2)</sup>	$R_{ extsf{ heta}JC}$	1.4							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>S</sub>	-55 to +150							°C
1)		1							

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 VDC.

<sup>2)</sup> Thermal resistance from junction to case per leg.

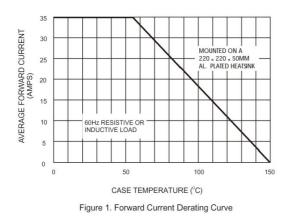


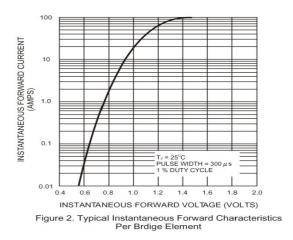


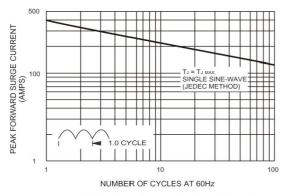
(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

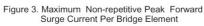
SEMTECH ELECTRONICS LTD.

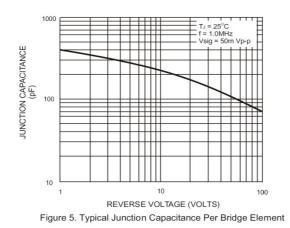
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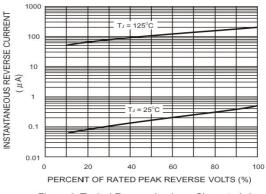




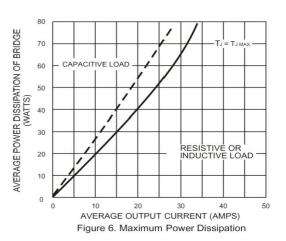














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Dated : 15/02/2006 H