

## DC COMPONENTS CO., LTD.

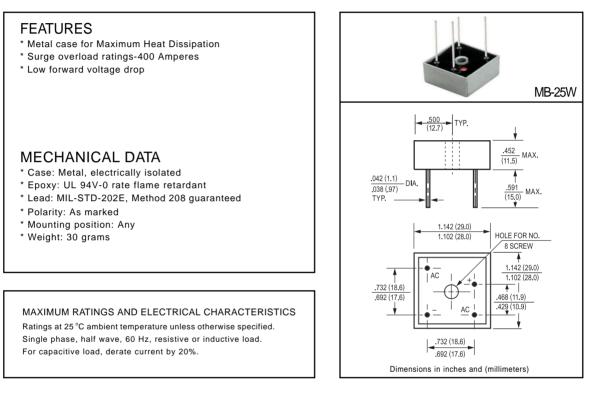
## **RECTIFIER SPECIALISTS**

KBPC / MB 25005W / 2505W THRU KBPC / MB 2510W / 2510W

## TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 25 Amperes



			KBPC 25005W	KBPC 2501W	KBPC 2502W	KBPC 2504W	KBPC 2506W	KBPC 2508W	KBPC 2510W	
		SYMBOL	MB2505W	MB251W	MB252W	MB254W	MB256W	MB258W	MB2510W	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc = 55°C		lo	25							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	400						Amps	
Maximum Forward Voltage Drop per element at 12.5A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated	@TA = 25°C	- IR	10							uAmps
DC Blocking Voltage per element	@T <sub>A</sub> = 100°C		500							
I <sup>2</sup> t Rating for Fusing (t<8.3ms)		l <sup>2</sup> t	374						A <sup>2</sup> Sec	
Typical Junction Capacitance (Note1)		CJ	300							pF
Typical Thermal Resistance (Note 2)		RθJC	2.5							°C/W
Operating and Storage Temperature Range		TJ,TSTG	-55 to + 150							٥C

NOTES : 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance from Junction to Case per leg.

KBPC25005W MB2505W KBPC2510W MB2510W

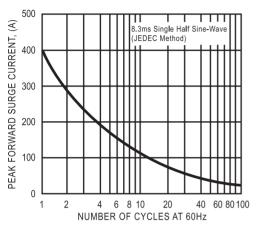


FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

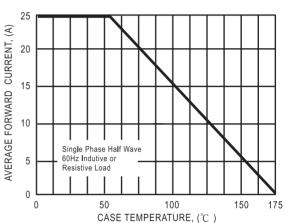
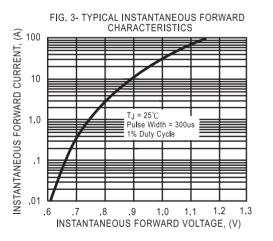
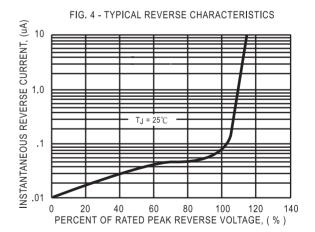


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

THRU







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Datasheets for electronics components.