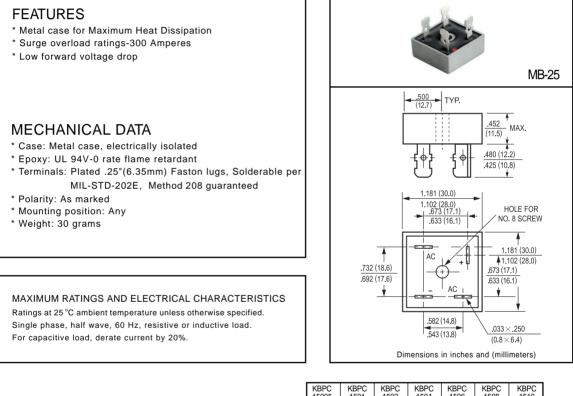


KBPC1510

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 15 Amperes



			KBPC 15005	KBPC 1501	KBPC 1502	KBPC 1504	KBPC 1506	KBPC 1508	KBPC 1510	
		SYMBOL	MB1505	MB151	MB152	MB154	MB156	MB158	MB1510	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	15.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	300						Amps	
Maximum Forward Voltage Drop per element at 7.5A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated	@Ta = 25°C	- IR	10							uAmps
DC Blocking Voltage per element	@Tc = 100°C		500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	374						A ² Sec	
Typical Junction Capacitance (Note1)		CJ	40						pF	
Typical Thermal Resistance (Note 2)		RθJA	19							°C/W
Operating and Storage Temperature Range		T J, TSTG	-55 to + 175							°C

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

2. Thermal Resistance from Junction to Ambient and from junction to lead mounted on P.C.B. with 0.47 x 0.47" (12x12mm) copper pads.

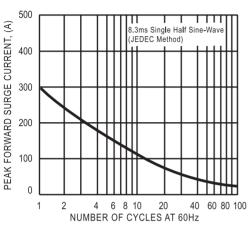


FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

