

DC COMPONENTS CO., LTD.

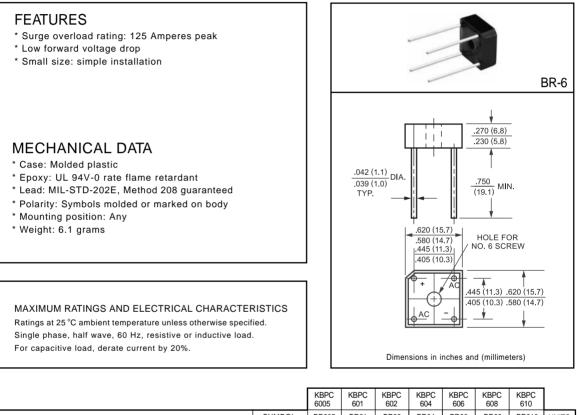
RECTIFIER SPECIALISTS

KBPC / BR605 6005 / BR605 THRU KBPC / BR610 610 /

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 6.0 Amperes



			KBPC 6005	601	602	KBPC 604	606	608	KBPC 610	
		SYMBOL	BR605	BR61	BR62	BR64	BR66	BR68	BR610	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 = 50 $^{\circ}$		lo	6.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	125							Amps
Maximum Forward Voltage Drop per element at 3.0A DC		Vf	1.0							Volts
Maximum DC Reverse Current at Rated	@TA = 25°C	IR	10							uAmps
DC Blocking Voltage per element	@Tc = 100°C	IK	500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	127							A ² Sec
Typical Junction Capacitance (Note1)		CJ	186							pF
Typical Thermal Resistance (Note 2)		RθJA	22							°C/W
Operating Temperature Range		TJ	-55 to + 125							°C
Storage Temperature Range		Tstg	-55 to + 150							°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 0.5 x 0.5" (13x13mm) copper pads.



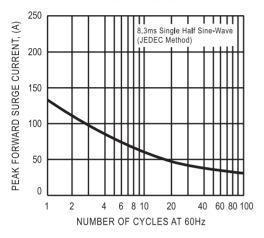


FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

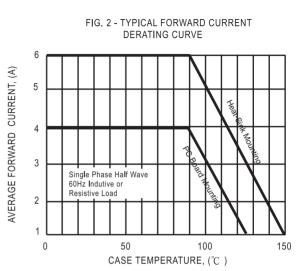


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

