

DC COMPONENTS CO., LTD.

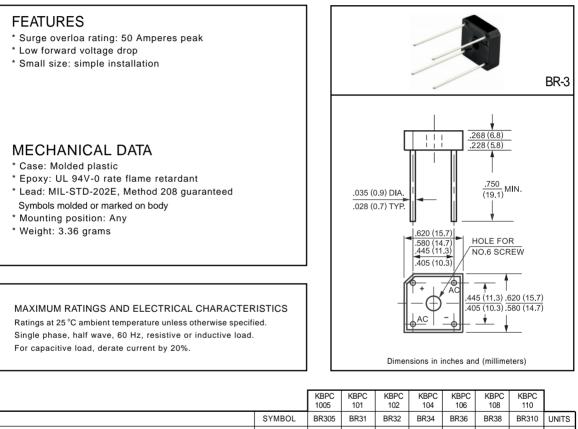
RECTIFIER SPECIALISTS

KBPC / BR 1005 / 305 THRU KBPC / BR 110 / 310

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 3.0 Amperes



			1005	101	102	104	106	108	110	
		SYMBOL	BR305	BR31	BR32	BR34	BR36	BR38	BR310	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°C		lo	3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave		IFSM	50							Amps
superimposed on rated load (JEDEC method)		IFOM								
Maximum Forward Voltage Drop per element at 1.5A DC		Vf	1.0						Volts	
Maximum CD Reverse Current at Rated	@TA = 25°C	IR	10							uAmps
DC Blocking Voltage per element	@Tc = 100°C	IK IK	500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	10						A ² Sec	
Typical Junction Capacitance (Note1)		CJ	21							pF
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 0.47 x 0.47" (12x12mm) copper pads.

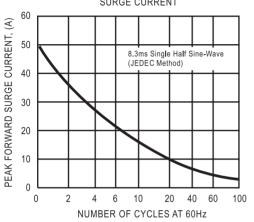


FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

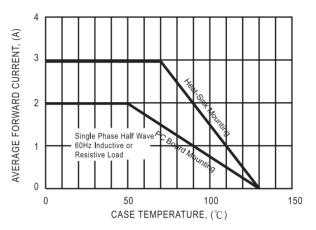


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

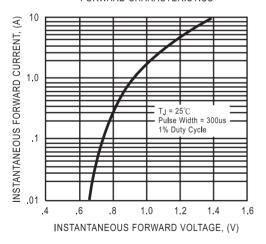
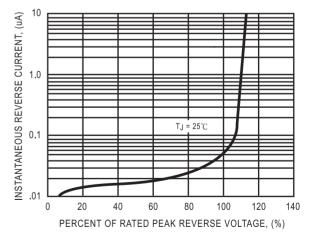


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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