

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU

BR805

BR810

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 8.0 Amperes



		STWDOL	DIX005	DIXOT	DIXOZ	DIX04	BIX00	DIXOO	BIXOIU	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS 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		10	8.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave		IFSM	125							Amps
superimposed on rated load (JEDEC Method)										
Maximum Forward Voltage Drop per element at 4.0A DC		Vf	1.1						Volts	
Maximum DC Reverse Current at Rated	@Ta = 25°C	10							uAmps	
DC Blocking Voltage per element	@Tc = 100°C	- Ік	500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	166							A ² Sec
Typical Junction Capacitance (Note1)		CJ	200							pF
Typical Thermal Resistance (Note 2)		RθJA	21							°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

DC COMPONENTS CO., LTD.