

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU

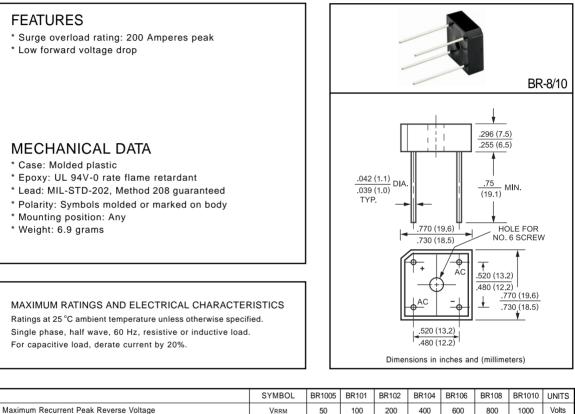
BR1005

BR1010

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 10 Amperes



		SYMBOL	BR1005	BR101	BR102	BR104	BR106	BR108	BR1010	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	10							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave		IFSM								
superimposed on rated load (JEDEC Method)			200							Amps
Maximum Forward Voltage Drop per element at 5.0A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated	@TA = 25°C		10 500							uAmps
DC Blocking Voltage per element	@Tc = 100°C	- IR								
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.

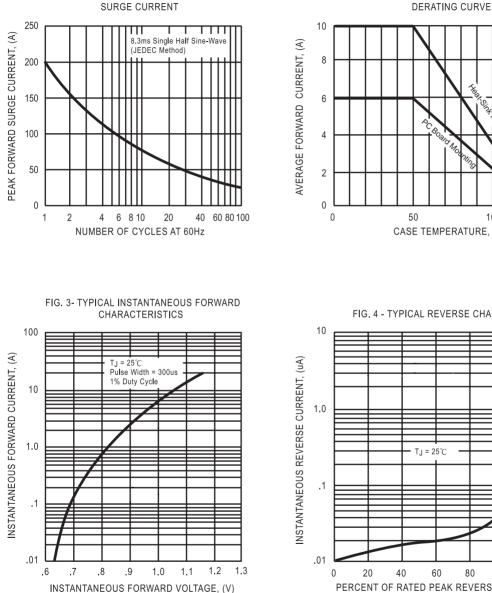


FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

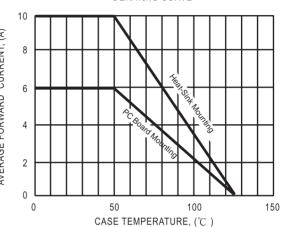


FIG. 2 - TYPICAL FORWARD CURRENT

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

