

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

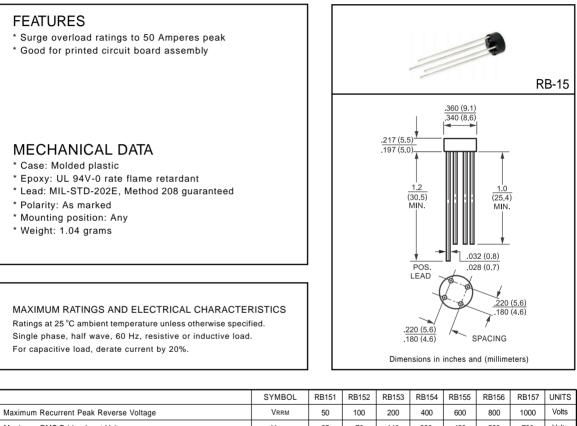
RB151 THRU

RB157

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE SILICON BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 1.5 Amperes



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 Output Current at TA = 25°C		lo	1.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50							Amps
Maximum Forward Voltage Drop per element at 1.0A DC		Vf	1.0							Volts
Maximum DC Reverse Current at Rated	@TA = 25°C	IR	10							uAmps
DC Blocking Voltage per element	@TA = 100°C		500							
I ² t Rating for Fusing (t<8.3ms)		l ² t	10							A ² Sec
Typical Junction Capacitance (Note1)		CJ	25							pF
Typical Thermal Resistance (Note 2)		RθJA	40							°C/W
Operating Temperature Range		TJ	-55 to + 125							°C
Storage Temperature Range		Tstg		-55 to + 150						

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.

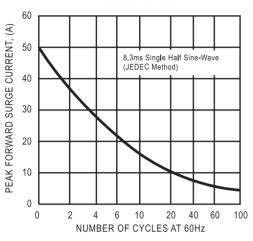
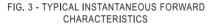
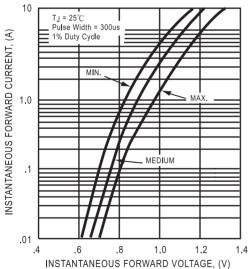


FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





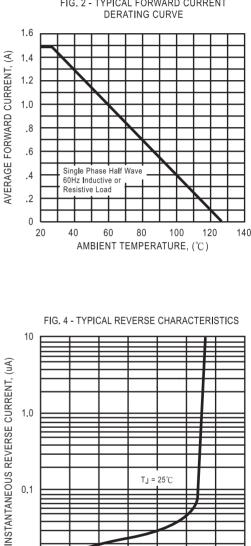


FIG. 2 - TYPICAL FORWARD CURRENT

ŊĿ DC COMPONENTS CO., LTD.

.01

0

20

40

60

PERCENT OF RATED PEAK **REVERSE VOLTAGE**, (%)

80

100

120

140