DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU

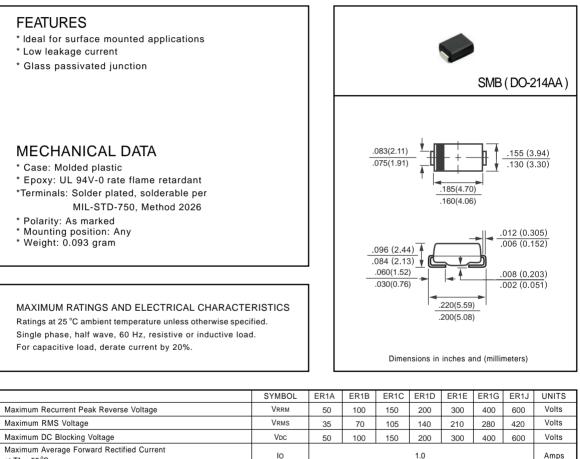
FR1A

ER1J

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SUPER FAST RECTIFIER

VOLTAGE RANGE - 50 to 600 Volts

CURRENT - 1.0 Ampere



			00	100	100	200	0000	400	0000	
Maximum Average Forward Rectified Current at TA = 55 $^{\circ}\mathrm{C}$		ю	1.0					Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30					Amps		
Maximum Instantaneous Forward Voltage at 1.0A DC		VF		0.95			1.25		1.7	Volts
Maximum DC Reverse Current	@TA = 25°C	In	IR 5.0 100							µAmps
at Rated DC Blocking Voltage	@TA = 100°C	IR							prinpo	
Maximum Reverse Recovery Time (Note 3)		trr	35						nSec	
Typical Thermaesistance(Note 2)		RθJL	10						°C/W	
Typical Junction Capacitance (Note 1)		CJ	34						pF	
Operating and Storage Temperature Range		TJ,TSTG	-50 to + 150						°c	

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

2. Thermal Resistance (Junction to Ambient), 0.2x0.2in²(5X5mm²)copper pads to each terminal.

3. Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

RATING AND CHARACTERISTIC CURVES (ER1A THRU ER1J)

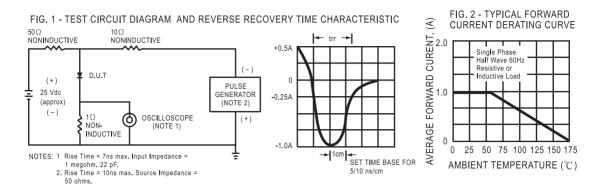


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

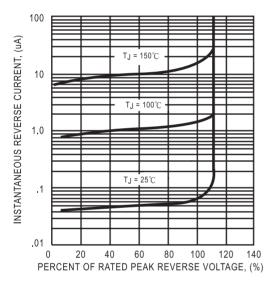


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

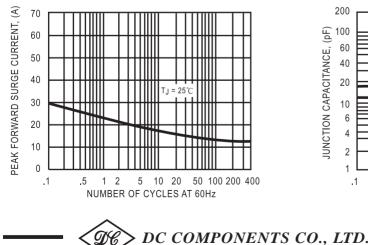


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

