DC COMPONENTS CO., LTD.

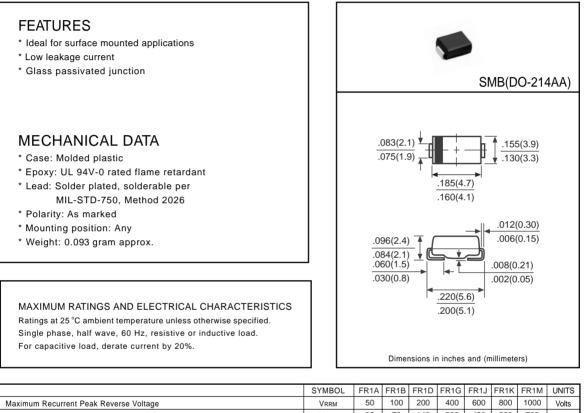
RECTIFIER SPECIALISTS

FR1A THRU FR1M

TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 1.0 Ampere



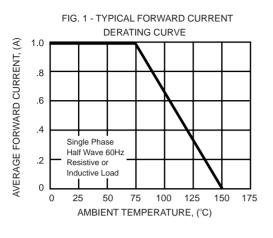
		OTWDOL		TICID			111110		1 1 1 1 1 1 1 1	
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75 °C		lo	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	1.3						Volts	
Maximum DC Reverse Current at	@TA=25 ⁰ C	- IR	5.0						μAmps	
Rated DC Blocking Voltage	@TA=125 ⁰ C		150							
Maximum Thermal Resistance (Note 2)		RθJL	30						° C/W	
Maximum Reverse Recovery Time (Note 3)		trr		1:	50		250	50	00	nSec
Typical Junction Capacitance (Note 1)		CJ	15						pF	
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150						٥C	

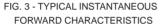
NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

2. Thermal Resistance (Junction to Ambient), .24in2 (6.0mm2) copper pads to each terminal.

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

RATING AND CHARACTERISTIC CURVES (FR1A THRU FR1M)





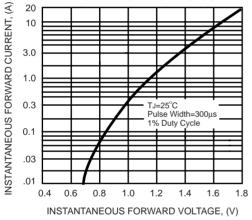
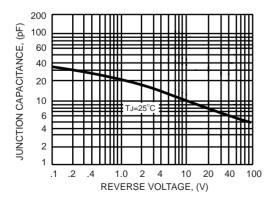


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



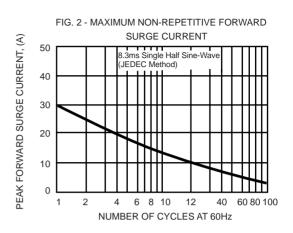


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

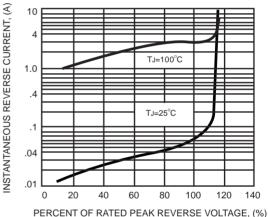
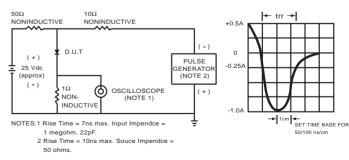


FIG. 6 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARAC TERISTIC



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