# DC COMPONENTS CO., LTD.

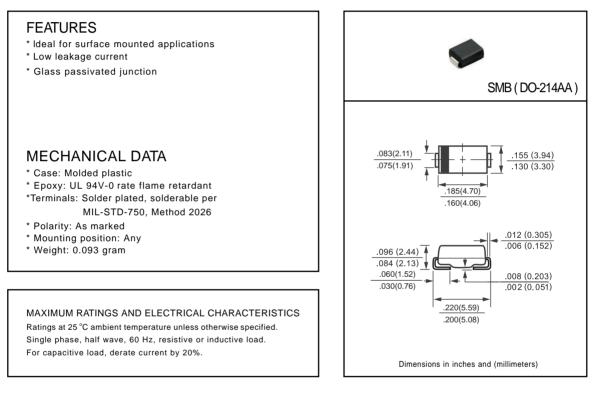
# **RECTIFIER SPECIALISTS**

FR1A THRU FR1K

## TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER

## VOLTAGE RANGE - 50 to 800 Volts

### CURRENT - 1.0 Ampere



		SYMBOL	FR1A	FR1B	FR1D	FR1G	FR1J	FR1K	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	600	Volts
Maximum Average Forward Rectified Current at TA = 75 °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	1.3					Volts	
Maximum DC Reverse Current	@Ta = 25°C	5.0						- uAmps	
at Rated DC Blocking Voltage	@TA = 100°C		150						
Maximum Reverse Recovery Time (Note 3)		trr		150		250	5	00	nSec
Typical Thermal Resistance (Note 2)		RøJL	12						°C/W
Typical Junction Capacitance (Note 1)		CJ	30						pF
Operating and Storage Temperature Range		TJ,TSTG	-65 to + 175					٥C	

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

2. Thermal Resistance (Junction to Ambient), 0.2x0.2in<sup>2</sup> (5X5mm<sup>2</sup>) copper pads to each terminal.

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

#### RATING AND CHARACTERISTIC CURVES (FR1A THRU FR1K)

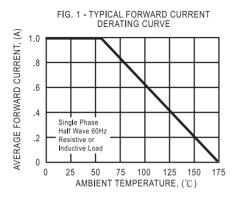
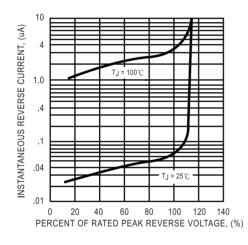
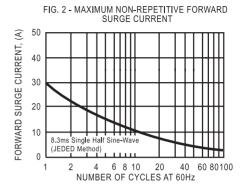
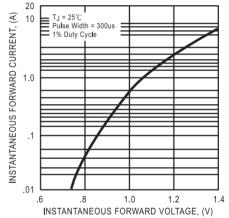


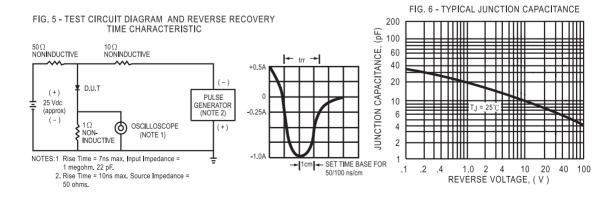
FIG. 3 - TYPICAL REVERSE CHARACTERISTICS











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