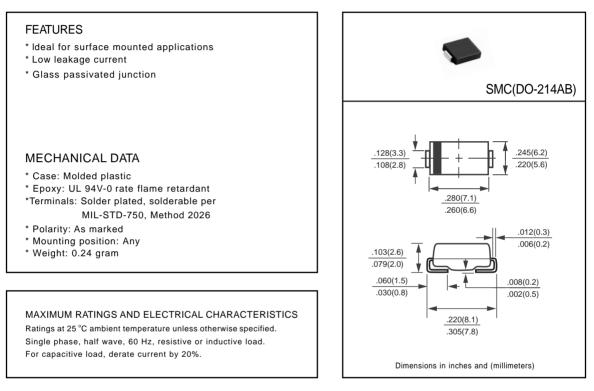
# DC COMPONENTS CO., LTD.FR3ATHRURECTIFIER SPECIALISTSFR3K

## TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER

#### VOLTAGE RANGE - 50 to 800 Volts

#### CURRENT - 3.0 Ampere



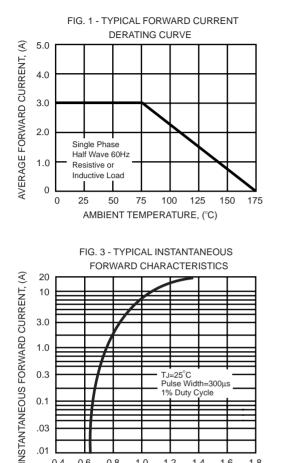
		SYMBOL	FR3A	FR3B	FR3D	FR3G	FR3J	FR3K	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	Volts
Maximum Average Forward Rectified Current at TA = 55 °C		ю	3.0						Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	100					Amps	
Maximum Instantaneous Forward Voltage at 2.0A DC		VF	1.3					Volts	
Maximum DC Reverse Current	@Ta = 25°C	- IR	10						uAmps
at Rated DC Blocking Voltage	@Ta = 100°C	IR	300						
Maximum Reverse Recovery Time (Note 3)		trr		150		250	5	00	nSec
Typical Thermal Resistance (Note 2)		RθJL	10					°C/W	
Typical Junction Capacitance (Note 1)		CJ	60					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 (FR3A THRU FR3K)**



.03 .01

200

100

60

40

20

10

6

4

2

1

.1 .2 .4

JUNCTION CAPACITANCE. (pF)

0.4 0.6 0.8

ш

1.0

1.0

INSTANTANEOUS FORWARD VOLTAGE, (V)

FIG. 5 - TYPICAL JUNCTION CAPACITANCE

1.2

1.4

1.6

1.8

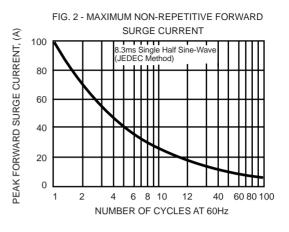


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

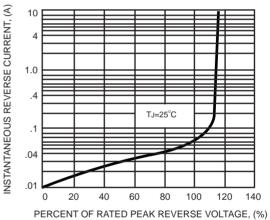
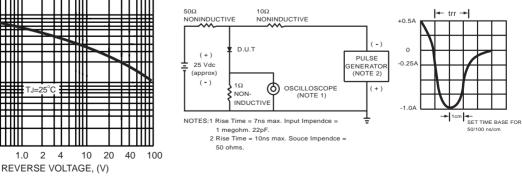


FIG. 6 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARAC TERISTIC





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