## DC COMPONENTS CO., LTD.

## **RECTIFIER SPECIALISTS**

THRU

FR1A

ER1G

## TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SUPER FAST RECTIFIER

VOLTAGE RANGE - 50 to 400 Volts

CURRENT - 1.0 Ampere

1.0

30

5.0

100

35

20

30

-65 to + 175

1.25

0.95

Amps

Amps

Volts

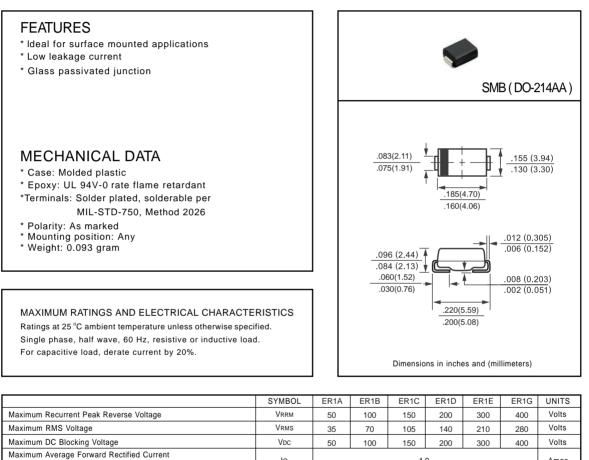
uAmps

nSec

°C/W

рF

°c



		-
NOTES :	<ol> <li>Measured at 1 MHz and applied reverse voltage of 4.0 volts.</li> </ol>	

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

@TA = 25°C

 $@T_A = 100^{\circ}C$ 

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

Peak Forward Surge Current 8.3 ms single half sine-wave

superimposed on rated load (JEDEC Method) Maximum Instantaneous Forward Voltage at 1.0A DC

Maximum Reverse Recovery Time (Note 3)

Maximum DC Reverse Current

Typical Thermaesistance(Note 2)

Typical Junction Capacitance (Note 1)

Operating and Storage Temperature Range

at Rated DC Blocking Voltage

at TA = 75 °C

IESM

VF

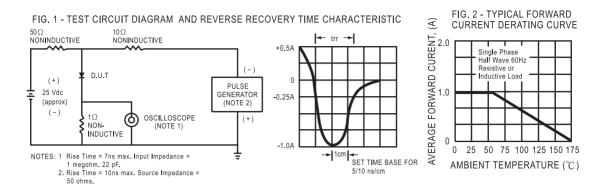
IR

trr

R<sub>0</sub>JL

Сл

TJ, TSTG



10

1.0

.1

.01

.001

0

.2

.4

.6

INSTANTANEOUS FORWARD VOLTAGE, (V)

.8

INSTANTANEOUS FORWARD CURRENT, (A)

FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

TJ = 25℃

1,2 1.4

Pulse Width = 300uS

1% Duty Cycle

1.0

Ě



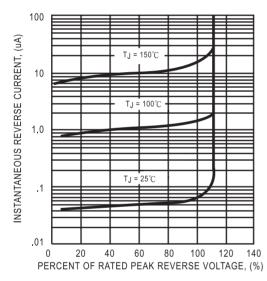


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

