

## PIN diode

## RN739F

## ●Applications

VHF / UHF band variable attenuators and AGC

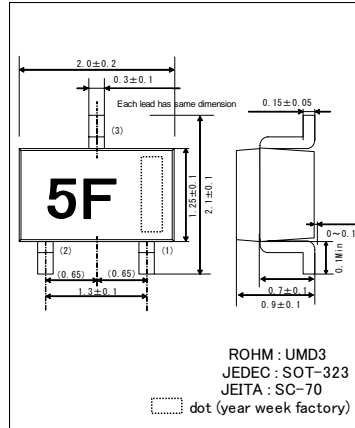
## ●Features

- 1) Small mold type. (UMD3)
- 2) Low high-frequency forward resistance ( $r_f$ ) / low capacitance ( $C_T$ ).

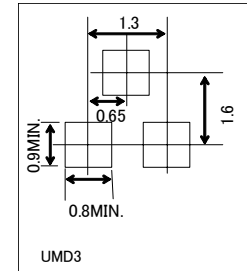
## ●Construction

Silicon diffusion junction

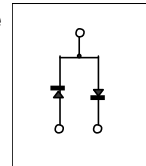
## ●External dimensions (Unit : mm)



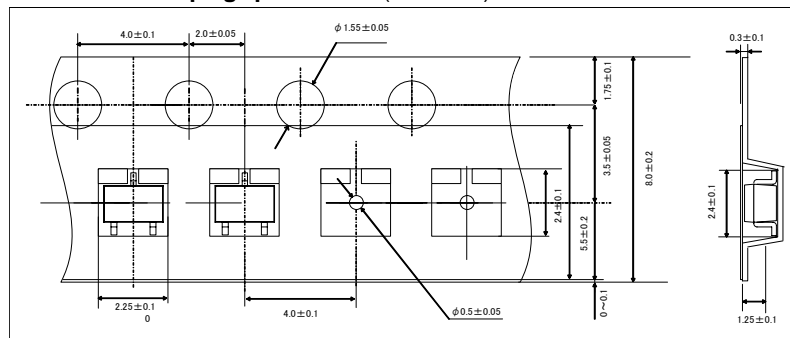
## ●Land size figure (Unit : mm)



## ●Structure



## ●Taping specification (Unit : mm)

●Absolute maximum ratings ( $T_a=25^\circ\text{C}$ )

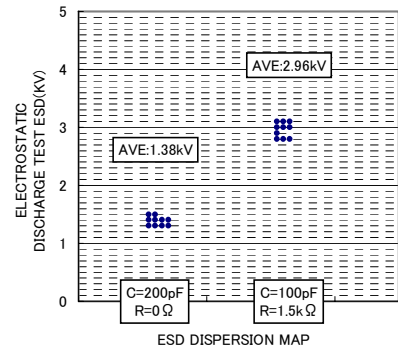
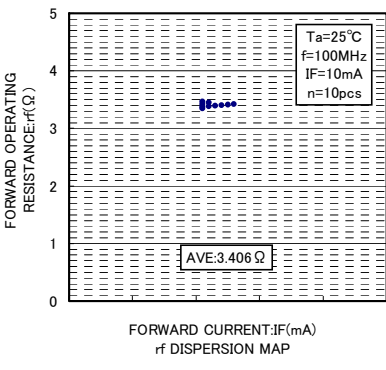
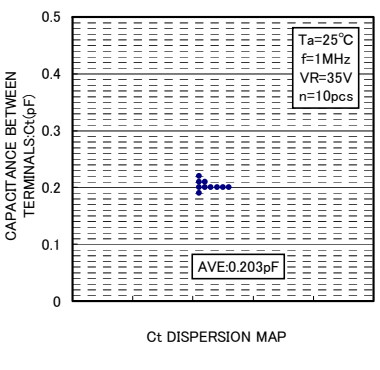
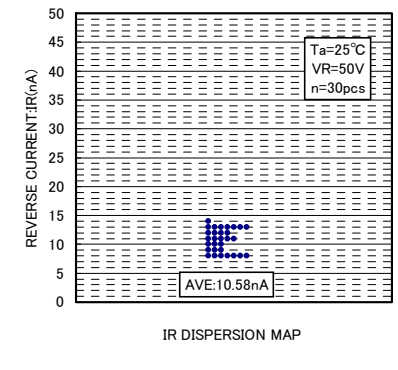
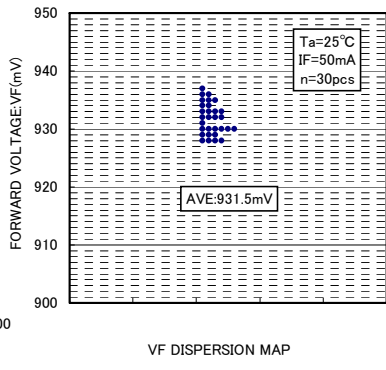
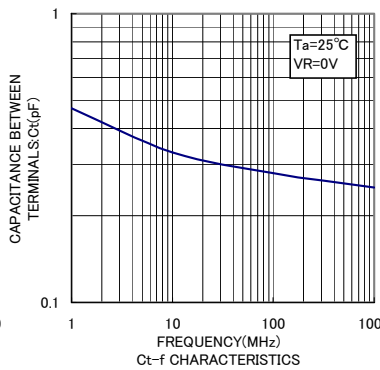
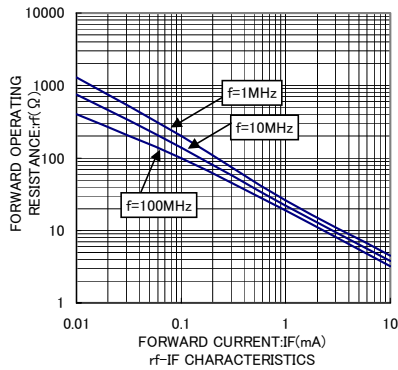
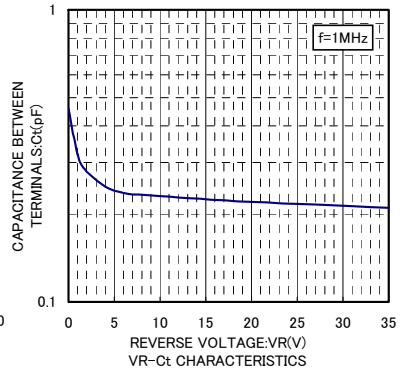
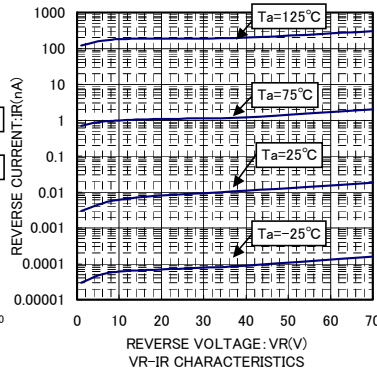
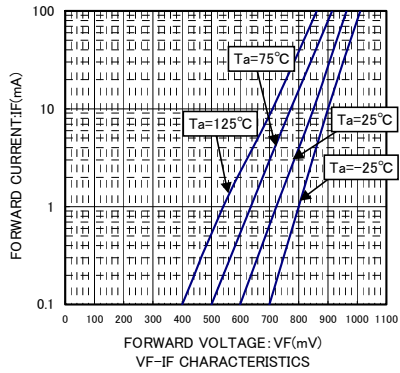
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	$V_R$	50	V
Forward current (DC)	$I_F$	50	mA
Power dissipation	$P_d$	100	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

●Electrical characteristics ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1	V	$I_F=50\text{mA}$
Reverse current	$I_R$	-	-	0.1	$\mu\text{A}$	$V_R=50\text{V}$
Capacitance between terminals	$C_t$	-	-	0.4	pF	$V_R=35\text{V}, f=1\text{MHz}$
Forward operating resistance	$R_f$	-	-	7.0	$\Omega$	$I_F=10\text{mA}, f=100\text{MHz}$

Diodes

●Electrical characteristic curves (Ta=25°C)



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