

# PIN diode

## RN739F

●Applications

VHF / UHF band variable attenuators and AGC

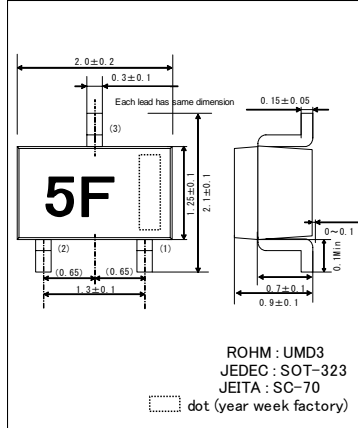
●Features

- 1) Small mold type. (UMD3)
- 2) Low high-frequency forward resistance (r<sub>f</sub>) / low capacitance (C<sub>T</sub>).

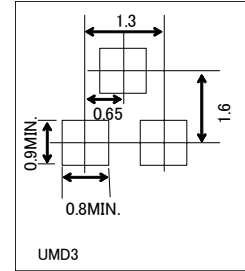
●Construction

Silicon diffusion junction

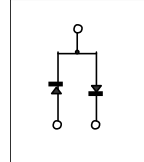
●External dimensions (Unit : mm)



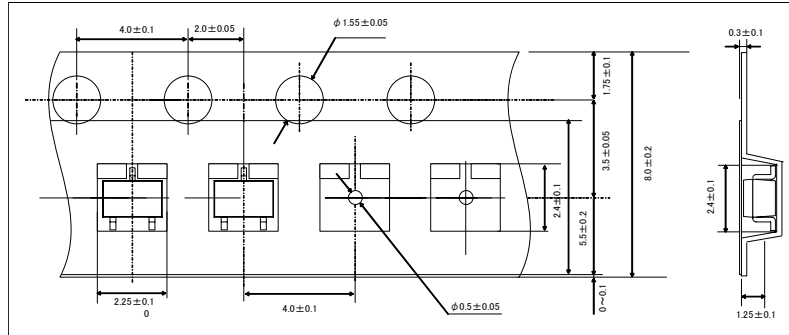
●Land size figure (Unit : mm)



●Structure



●Taping specification (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

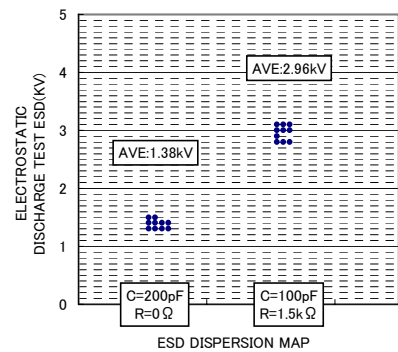
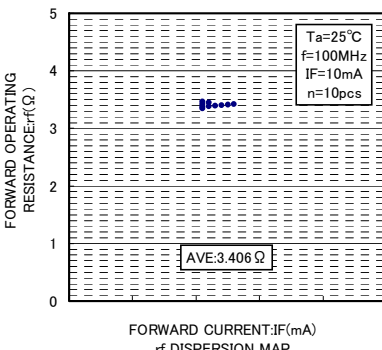
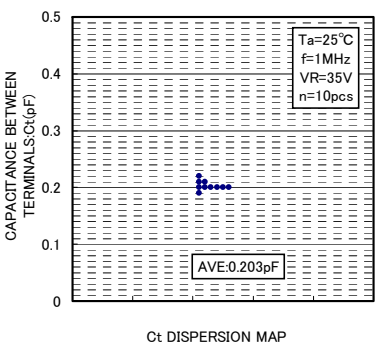
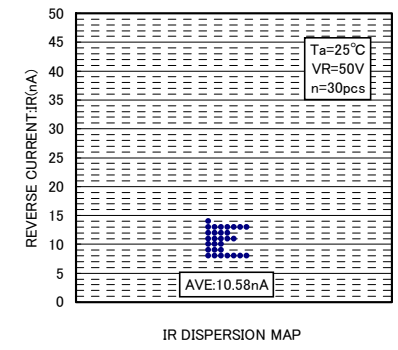
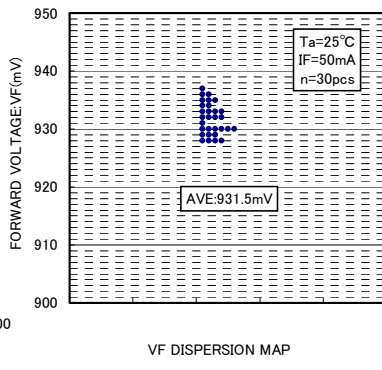
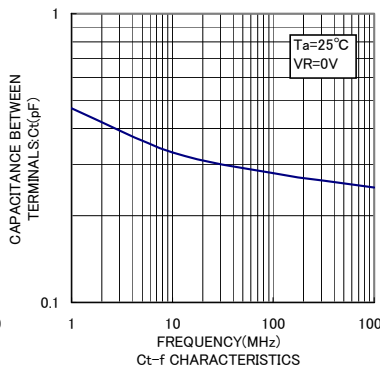
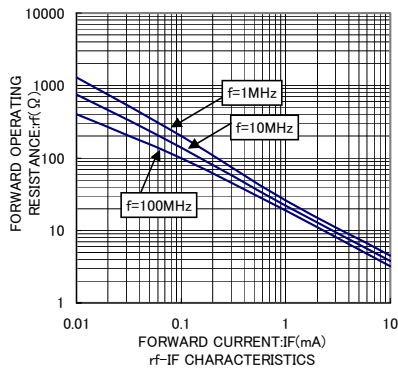
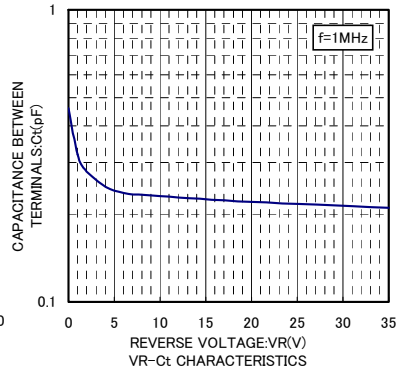
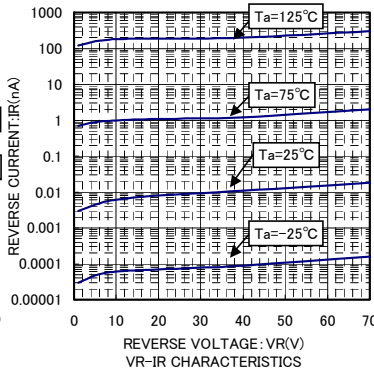
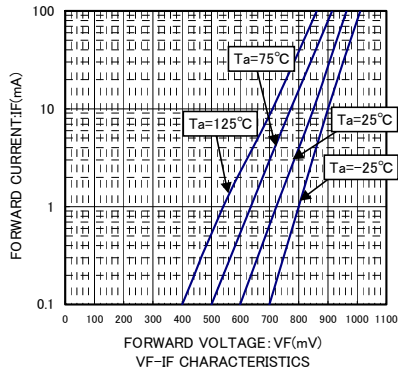
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V <sub>R</sub>	50	V
Forward current (DC)	I <sub>F</sub>	50	mA
Power dissipation	P <sub>d</sub>	100	mW
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	1	V	I <sub>F</sub> =50mA
Reverse current	I <sub>R</sub>	-	-	0.1	μA	V <sub>R</sub> =50V
Capacitance between terminals	C <sub>t</sub>	-	-	0.4	pF	V <sub>R</sub> =35V, f=1MHz
Forward operating resistance	R <sub>f</sub>	-	-	7.0	Ω	I <sub>F</sub> =10mA, f=100MHz

Diodes

●Electrical characteristic curves (Ta=25°C)



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