

PIN diode

RN739F

●Applications

VHF / UHF band variable attenuators and AGC

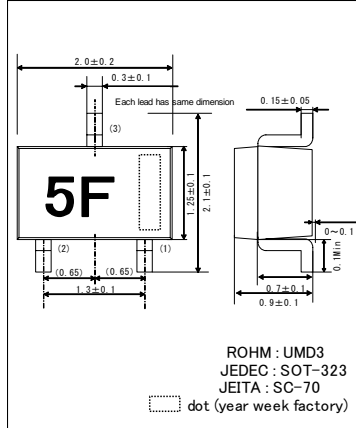
●Features

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

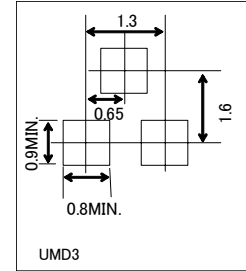
●Construction

Silicon diffusion junction

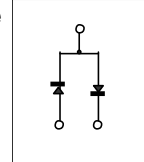
●External dimensions (Unit : mm)



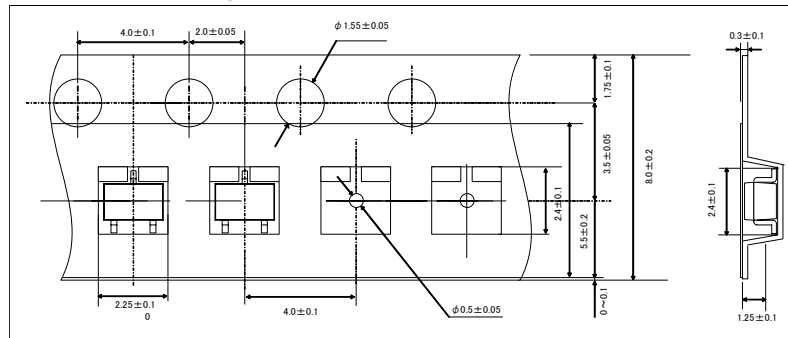
●Land size figure (Unit : mm)



●Structure



●Taping specification (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

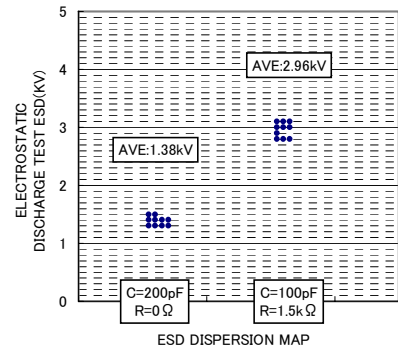
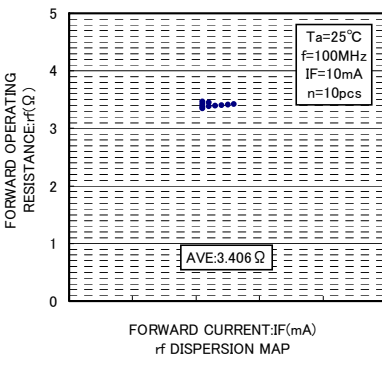
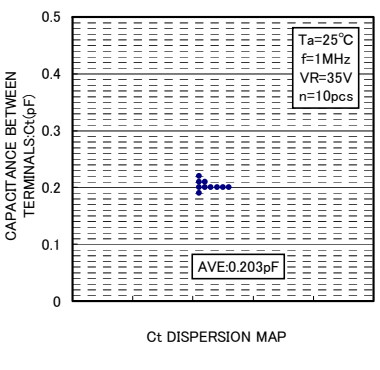
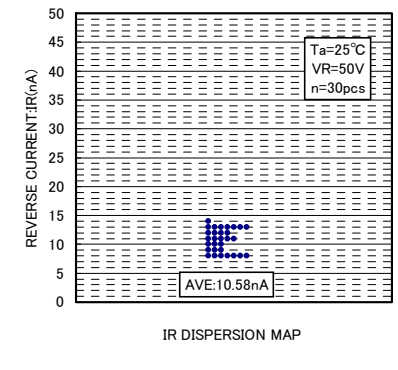
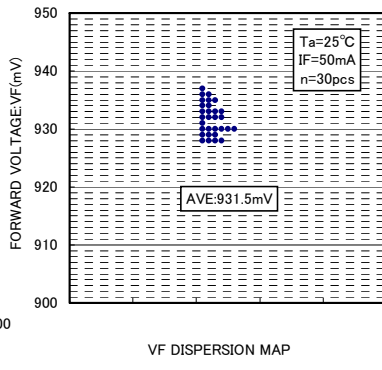
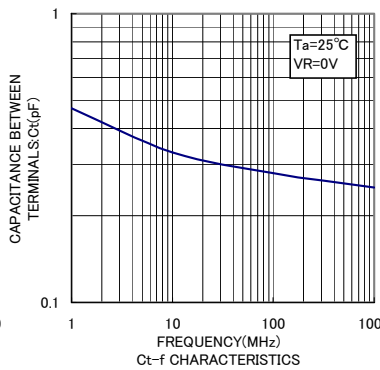
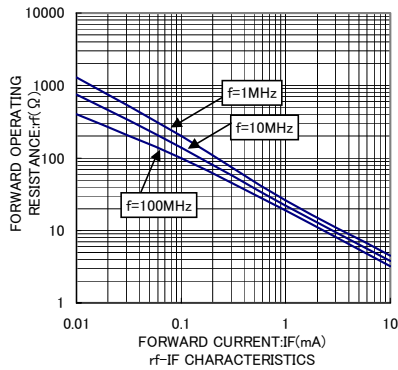
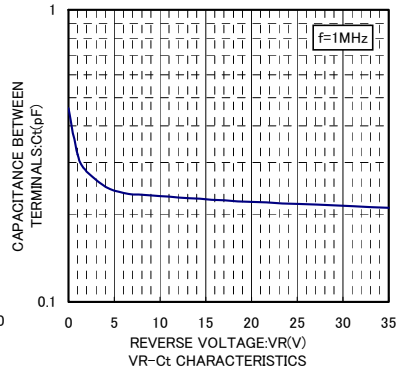
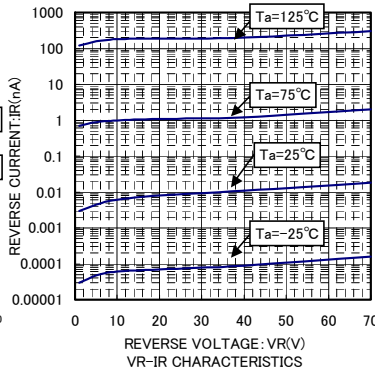
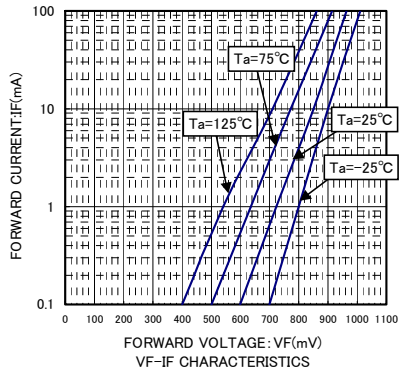
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V_R	50	V
Forward current (DC)	I_F	50	mA
Power dissipation	P_d	100	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

●Electrical characteristics (Ta=25°C)

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

Diodes

●Electrical characteristic curves (Ta=25°C)



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Телефон: +7 812 627 14 35

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Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331