

Diodes

PIN diode

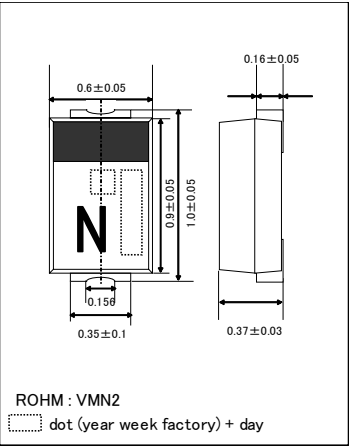
RN242CS

●Application
High frequency switching

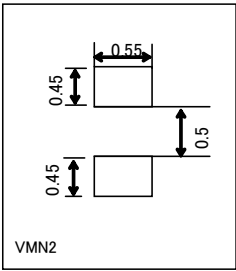
●Features
1) Ultra small mold type. (VMN2)
2) Low high frequency resistance and low capacitance

●Construction
Silicon epitaxial planar

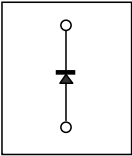
●External dimensions (Unit : mm)



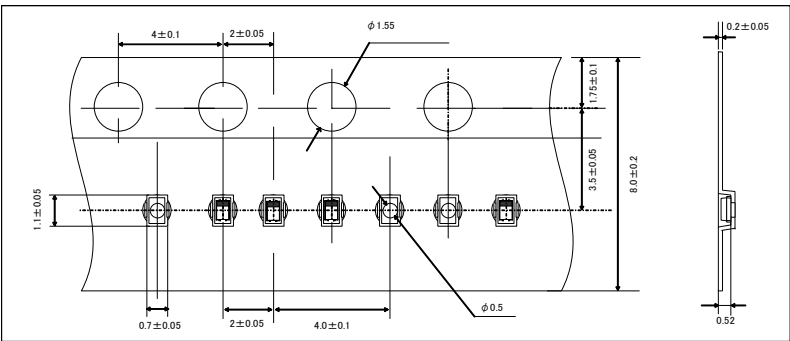
●Lead size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

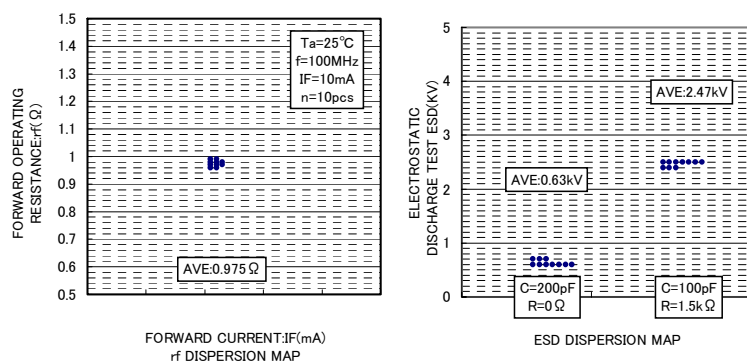
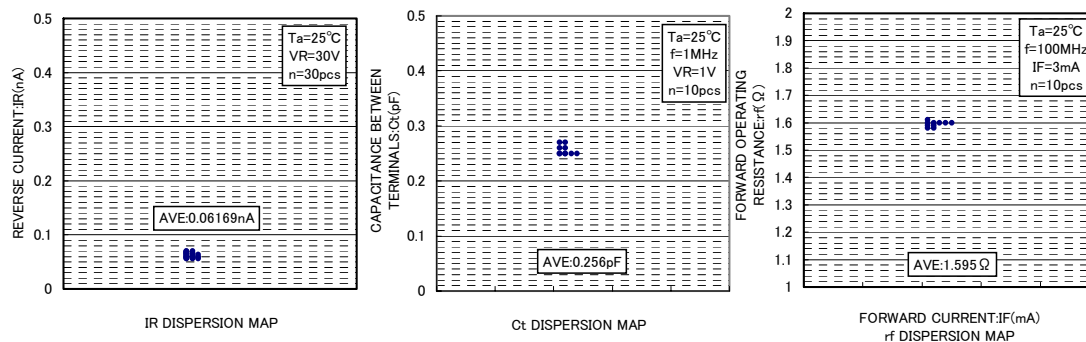
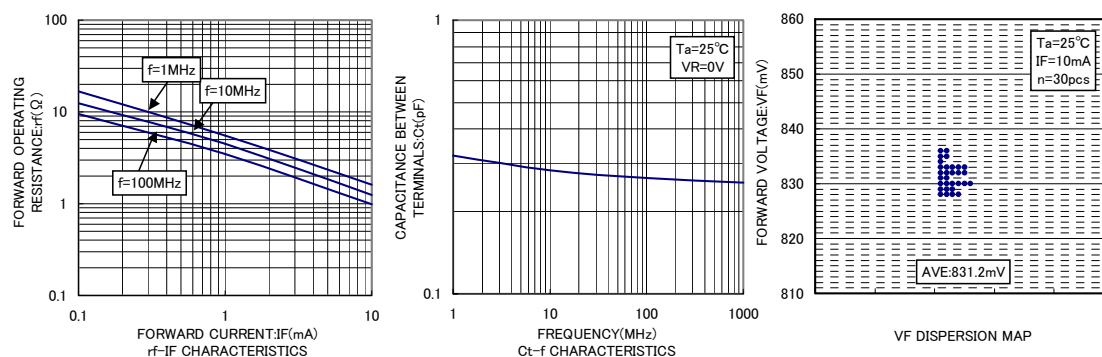
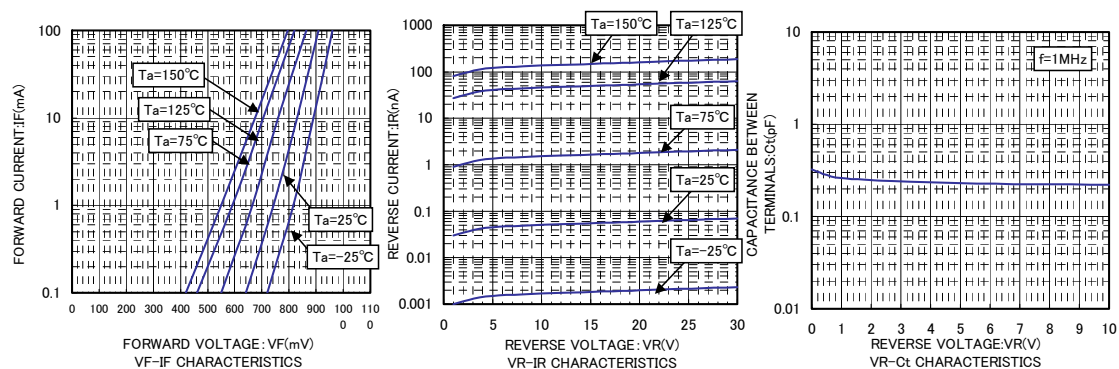
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V_R	30	V
Forward current	I_F	100	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1	V	$I_F=10\text{mA}$
Reverse current	I_R	-	-	0.1	μA	$V_R=30\text{V}$
Capacitance between terminals	C_t	-	-	0.35	pF	$V_R=1\text{V}$, $f=1\text{MHz}$
High frequency resistance	R_f	-	-	3	Ω	$I_F=3\text{mA}$, $f=100\text{MHz}$
		-	-	1.5	Ω	$I_F=10\text{mA}$, $f=100\text{MHz}$

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●Electrical characteristic curves (Ta=25°C)



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