

## PIN diode

## RN142V

## ●Applications

High frequency switching

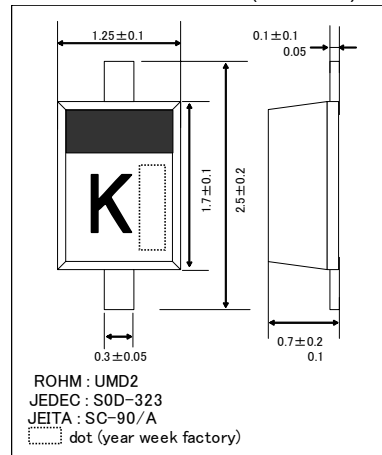
## ●Features

- 1) Small mold type. (UMD2)
- 2) Low high-frequency forward resistance / low capacitance (C<sub>T</sub>).

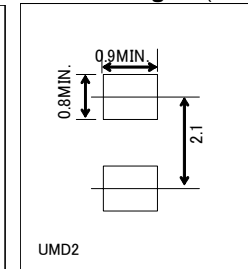
## ●Construction

Silicon epitaxial planar

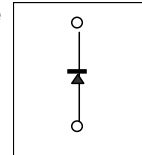
## ●External dimensions (Unit : mm)



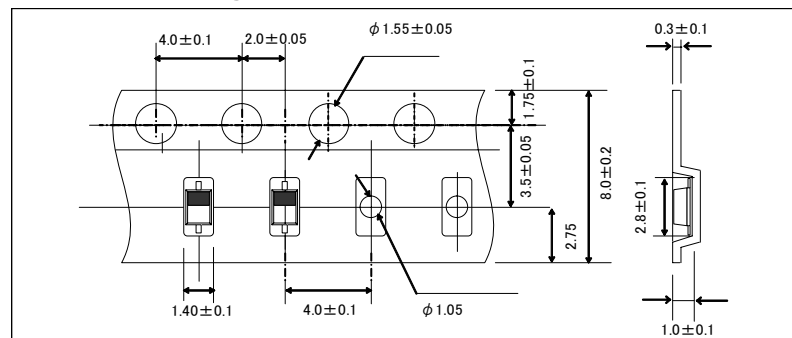
## ●Land size figure (Unit : mm)



## ●Structure



## ●Taping dimensions (Unit : mm)



## ●Absolute maximum ratings (Ta=25°C)

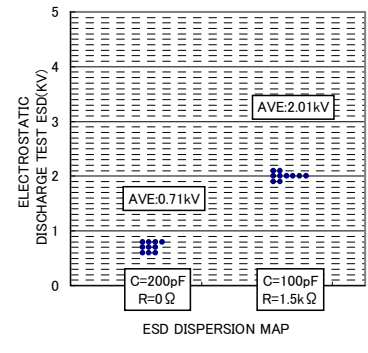
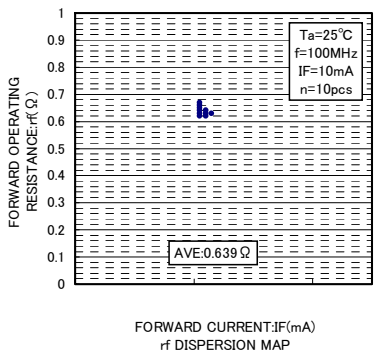
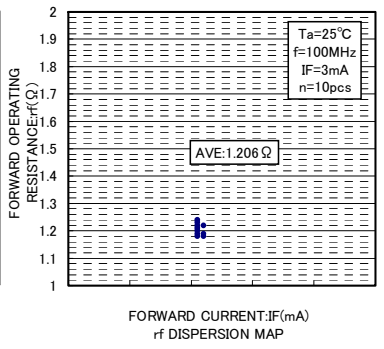
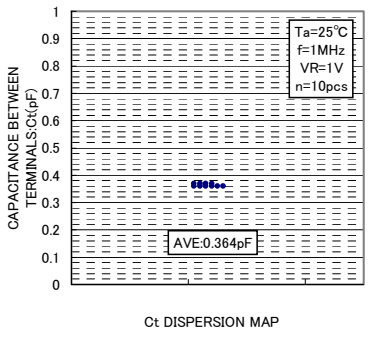
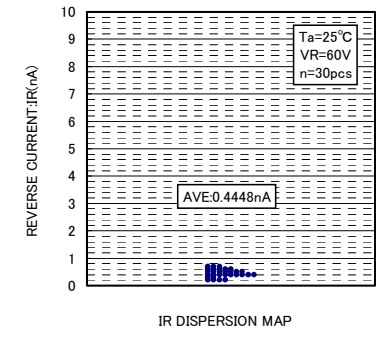
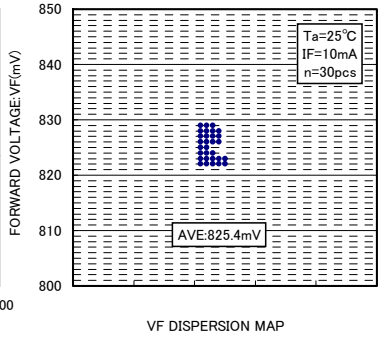
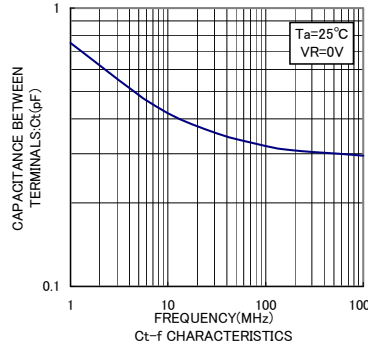
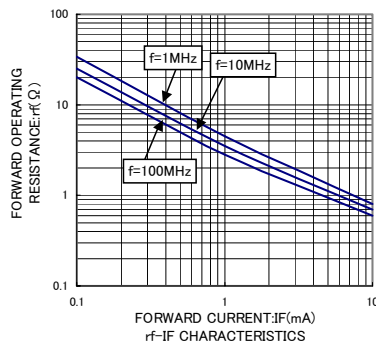
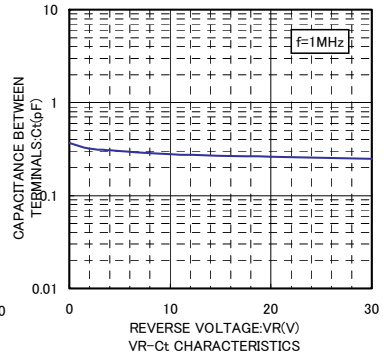
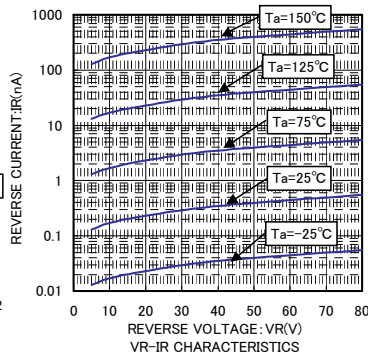
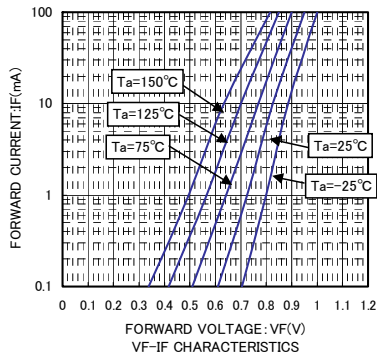
Parameter	Symbol	Limits	Unit
Reverse voltage	V <sub>R</sub>	60	V
Reverse current	I <sub>F</sub>	100	mA
Junction temperature	T <sub>j</sub>	150	°C
Storage temperature	T <sub>stg</sub>	-55 to +150	°C

## ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	1	V	I <sub>F</sub> =10mA
Reverse current	I <sub>R</sub>	-	-	0.1	μA	V <sub>R</sub> =60V
Capacitance between terminals	C <sub>t</sub>	-	-	0.45	pF	V <sub>R</sub> =1V, f=1MHz
High frequency switching	R <sub>f</sub>	-	-	3	Ω	I <sub>F</sub> =3mA, f=100MHz

Diodes

●Electrical characteristic curves (Ta=25°C)



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