

Diodes

PIN diode

RN142V

●Applications

High frequency switching

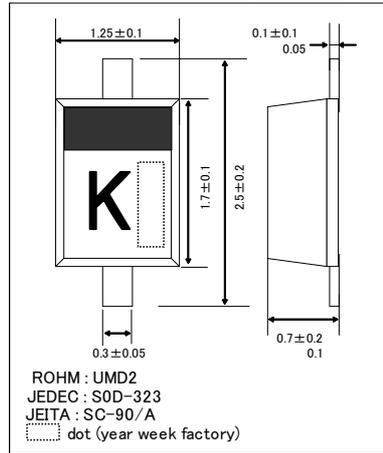
●Features

- 1) Small mold type. (UMD2)
- 2) Low high-frequency forward resistance / low capacitance (Ct).

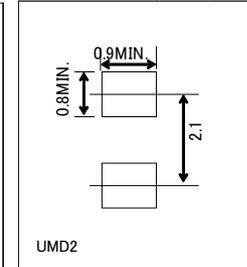
●Construction

Silicon epitaxial planar

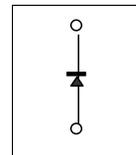
●External dimensions (Unit : mm)



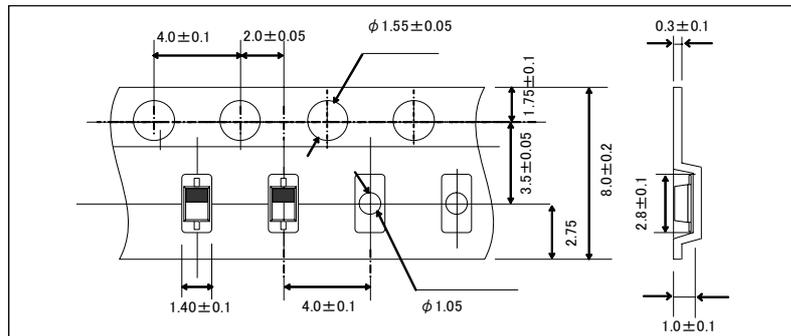
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

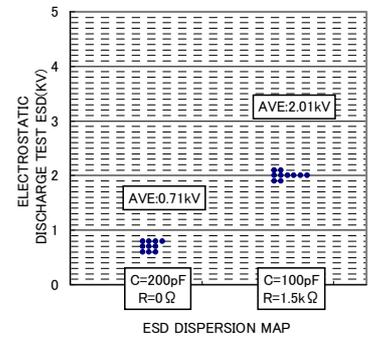
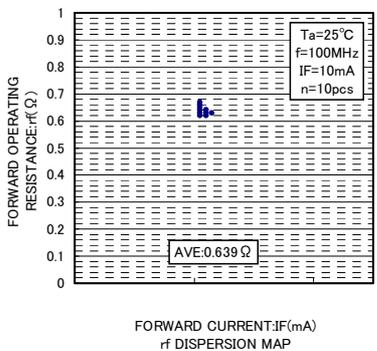
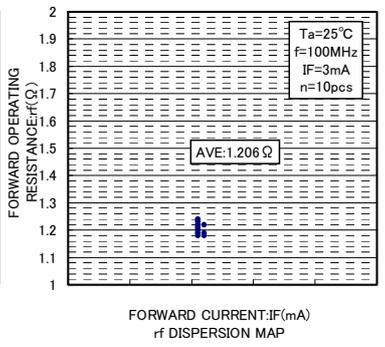
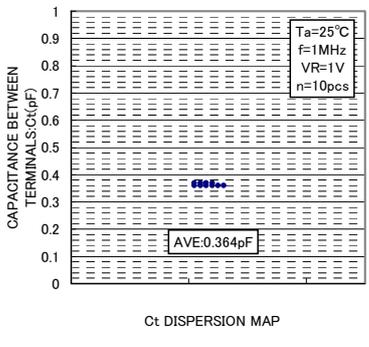
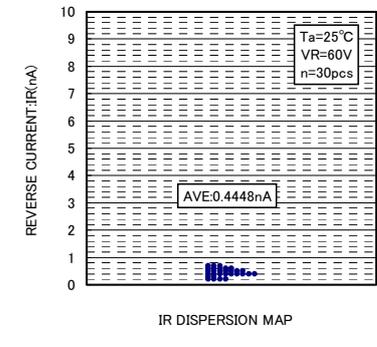
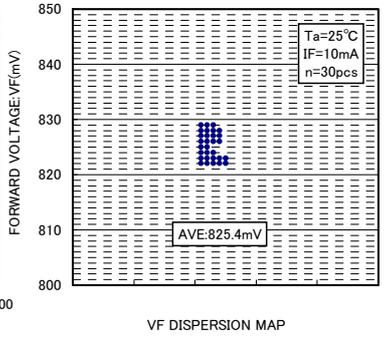
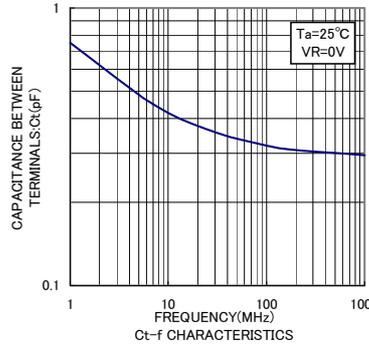
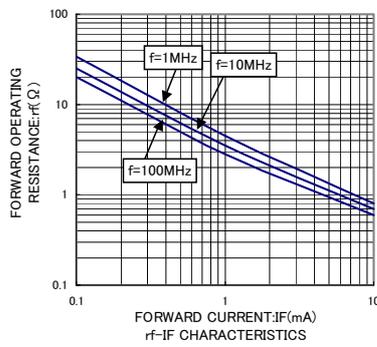
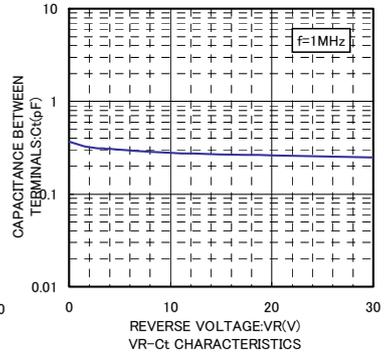
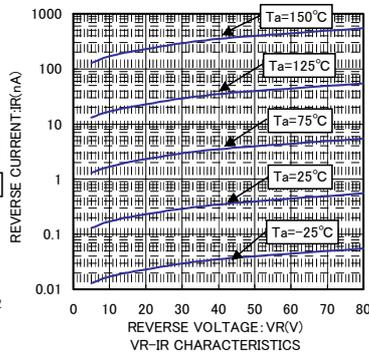
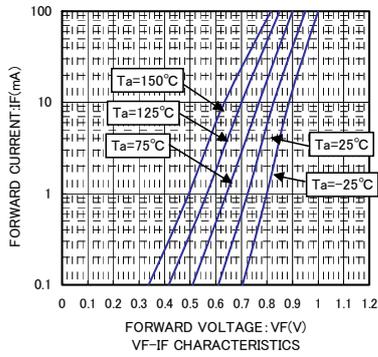
Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	60	V
Reverse current	I_R	100	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1	V	$I_F=10mA$
Reverse current	I_R	-	-	0.1	μA	$V_R=60V$
Capacitance between terminals	C_t	-	-	0.45	pF	$V_R=1V, f=1MHz$
High frequency switching	R_f	-	-	3	Ω	$I_F=3mA, f=100MHz$

Diodes

●Electrical characteristic curves (Ta=25°C)



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