

PIN diode

RN142S

●Applications

High frequency switching

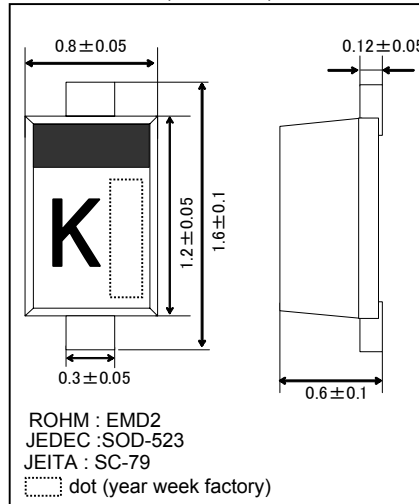
●Features

- 1) Ultra small mold type (EMD2)
- 2) High frequency resistance which is small and low capacity.

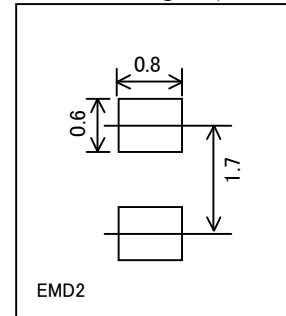
●Construction

Silicon epitaxial planar

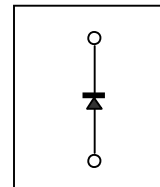
●Dimensions (Unit : mm)



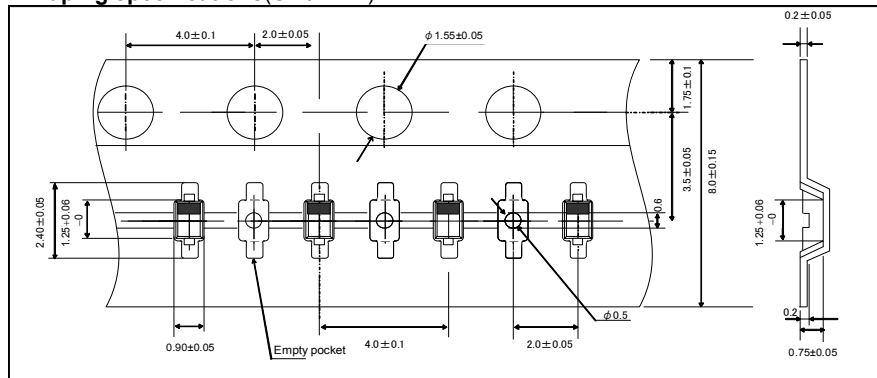
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)

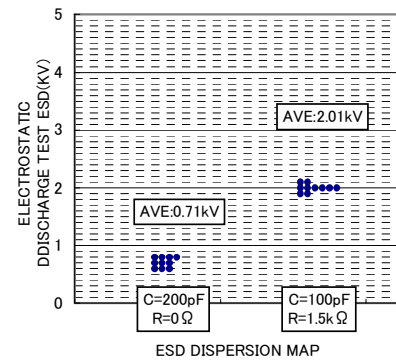
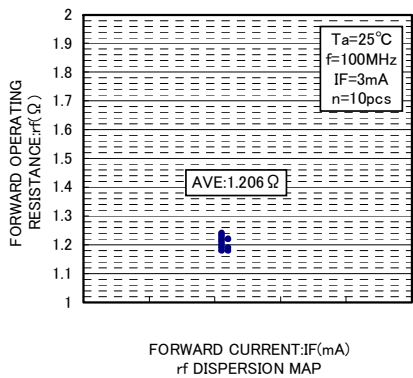
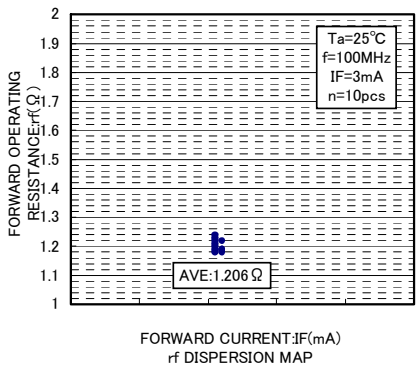
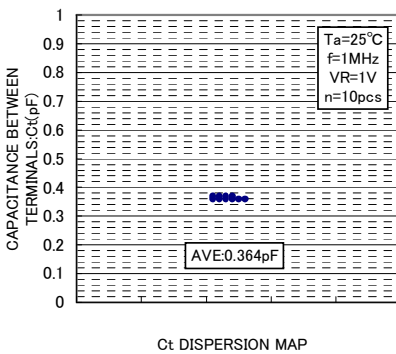
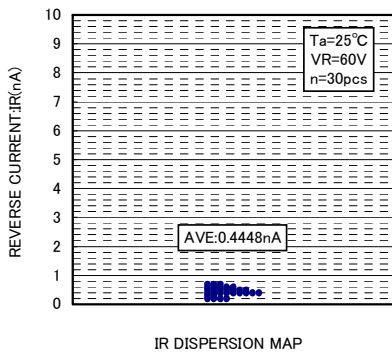
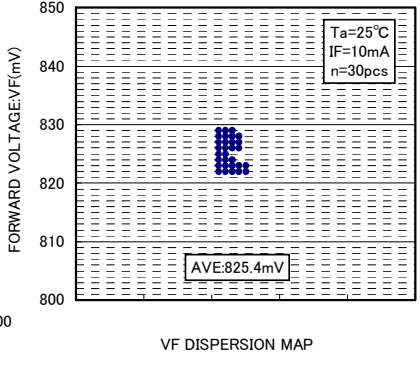
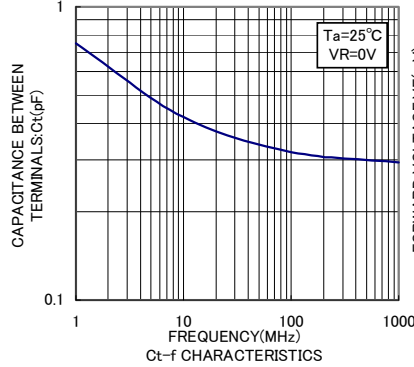
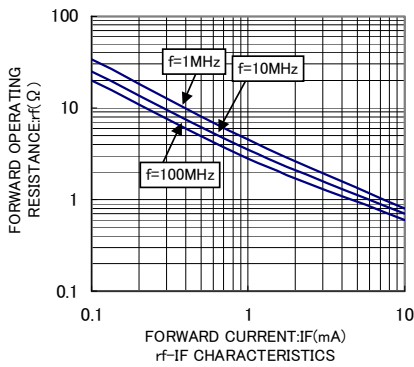
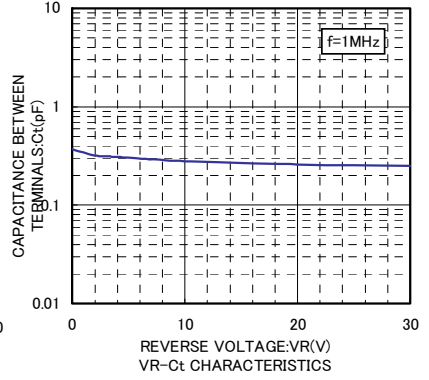
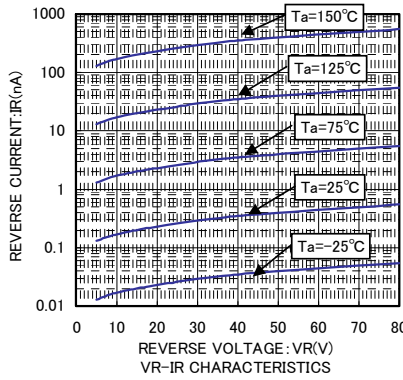
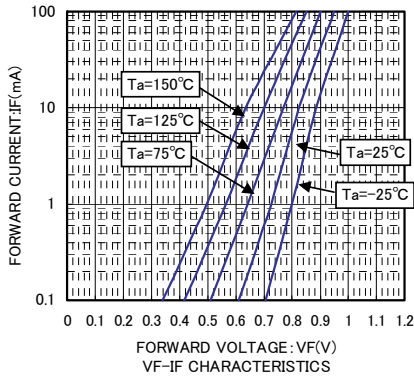


●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V_R	60	V
Forward current (DC)	I_F	100	mA
Power dissipation	P_d	150	mW
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	-	-	1.00	V	$I_F=10\text{mA}$
Reverse current	I_R	-	-	0.1	μA	$V_R=60\text{V}$
Capacitance between terminals	C_t	-	-	0.45	pF	$V_R=1.0\text{V}$, $f=1\text{MHz}$
Forward resistance	R_f	-	-	3	Ω	$I_F=3\text{mA}$, $f=100\text{MHz}$
		-	-	2	Ω	$I_F=10\text{mA}$, $f=100\text{MHz}$



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