

RN142ZS12A

Diodes

PIN Diode

RN142ZS12A

● Applications

High frequency switching

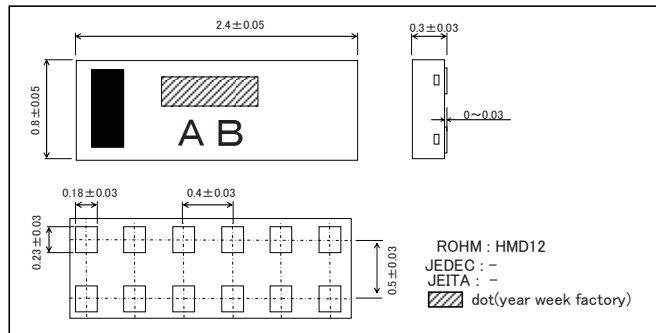
● Features

- 1) Ultra small mold type (HMD12)
- 2) Low high-frequency forward resistance (rF)
/ low capacitance (C_T).

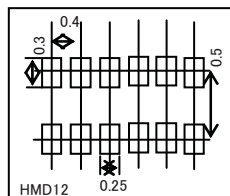
● Construction

Silicon epitaxial planar

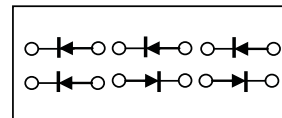
● Dimensions (Unit : mm)



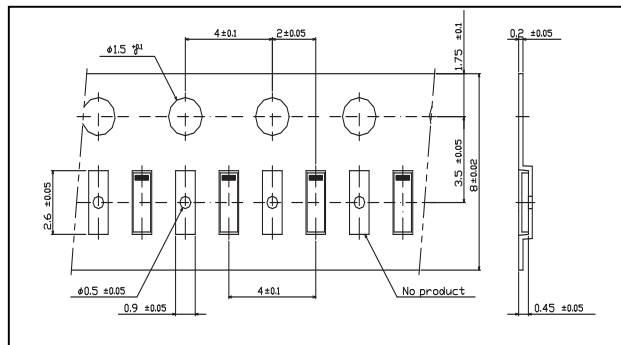
● Land size figure (Unit : mm)



● Structure



● Taping specifications (Unit : mm)



● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V_R	30	V
Forward current(DC)	I_F	50	mA
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

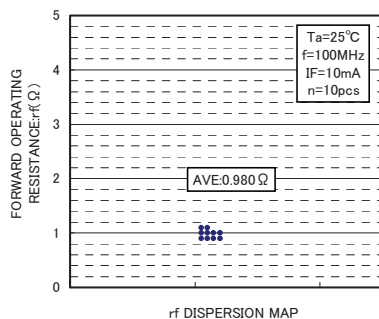
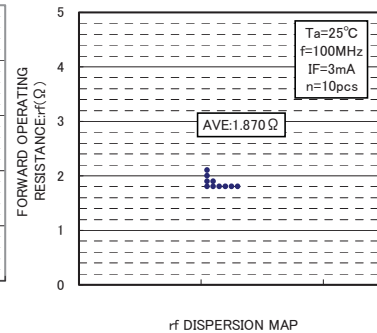
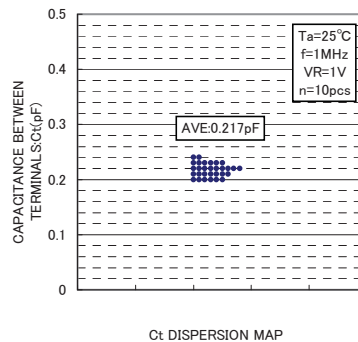
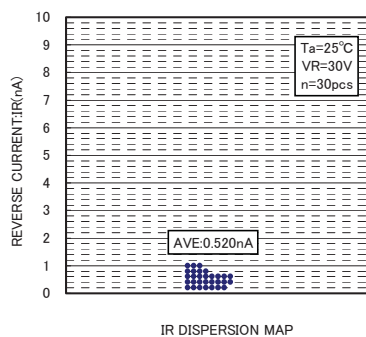
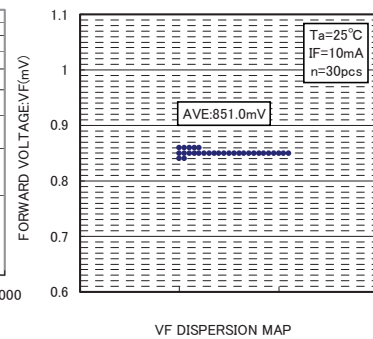
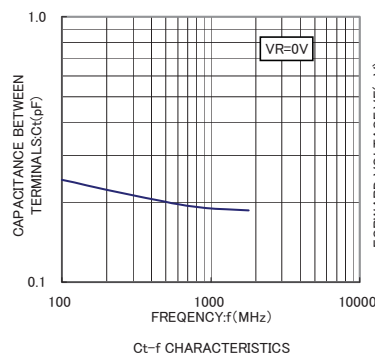
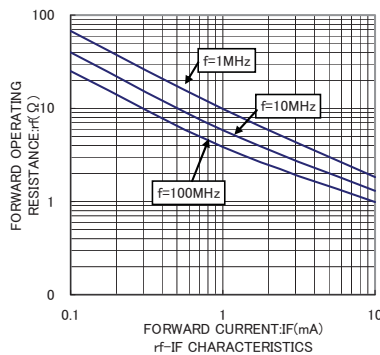
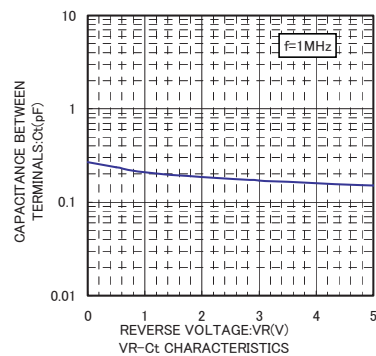
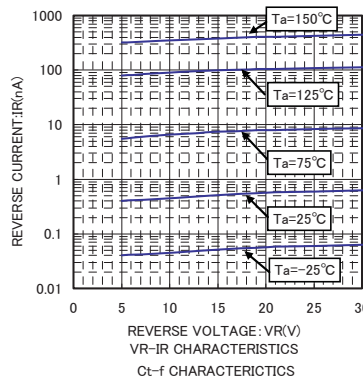
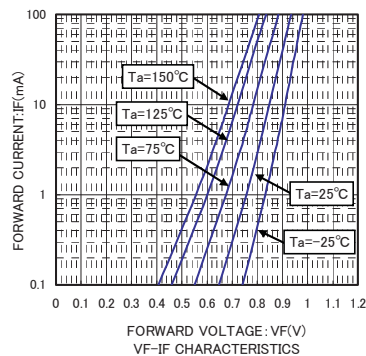
● Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.0	V	$I_F=10\text{mA}$
Reverse current	I_R	-	-	0.1	μA	$V_R=30\text{V}$
Capacitance between terminals	C_t	-	-	0.45	pF	$V_R=1.0\text{V}$, $f=1\text{MHz}$
Forward resistance	R_f	-	-	1.5	Ω	$I_F=10\text{mA}$, $f=100\text{MHz}$
	R_f	-	-	2.5	Ω	$I_F=3\text{mA}$, $f=100\text{MHz}$

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● Electrical characteristic curves



Appendix

Notes

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