

## PIN Diode

## RN142ZS12A

## ● Applications

High frequency switching

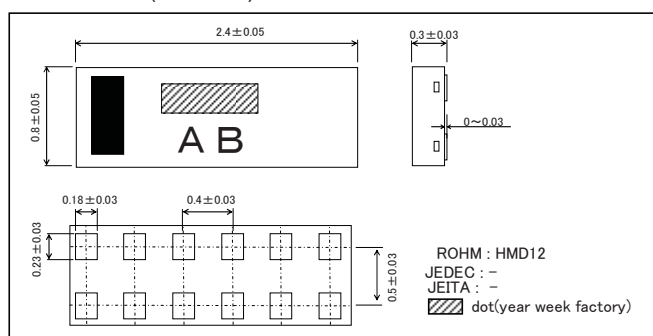
## ● Features

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

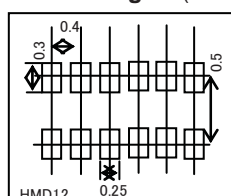
## ● Construction

Silicon epitaxial planar

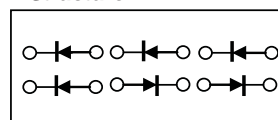
## ● Dimensions (Unit : mm)



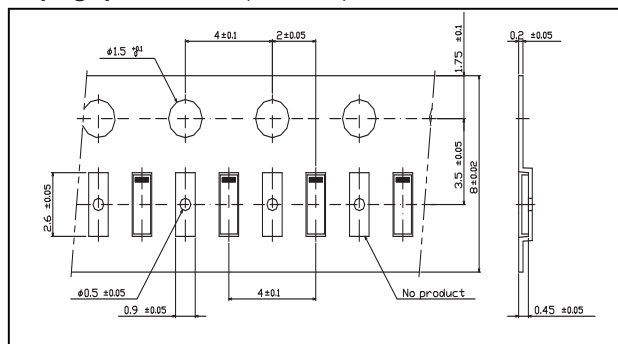
## ● Land size figure (Unit : mm)



## ● Structure



## ● Taping specifications (Unit : mm)

● Absolute maximum ratings ( $T_a=25^\circ\text{C}$ )

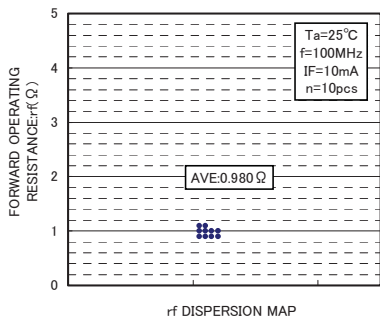
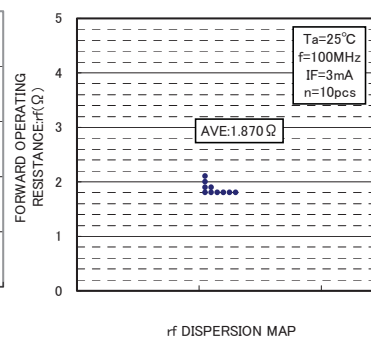
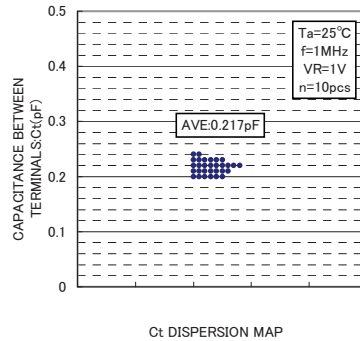
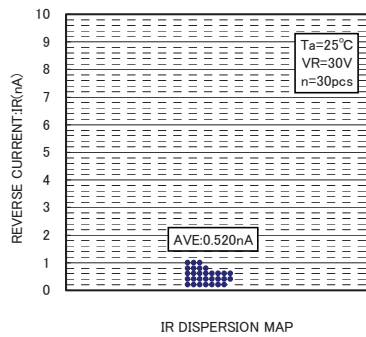
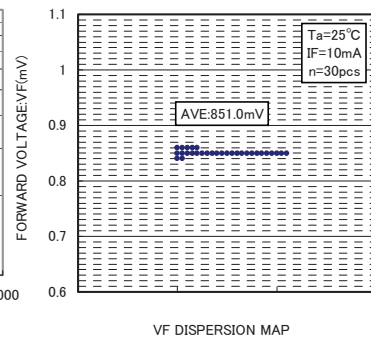
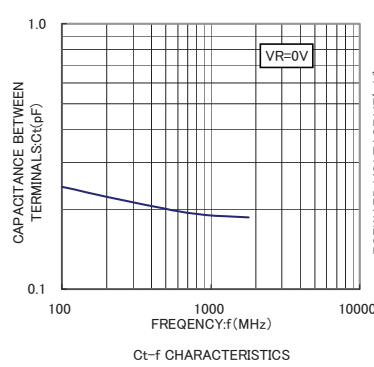
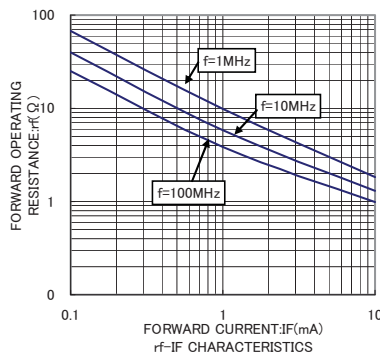
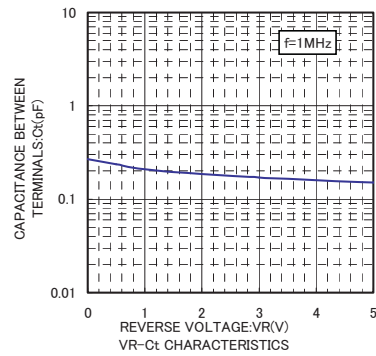
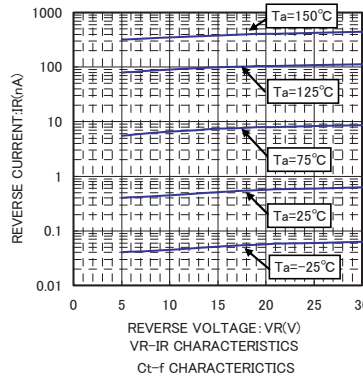
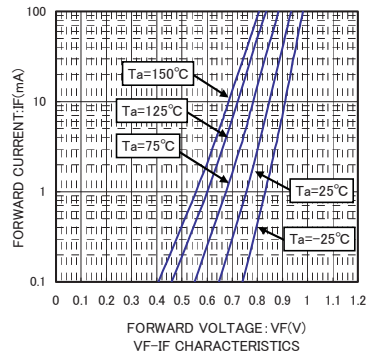
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	$V_R$	30	V
Forward current(DC)	$I_F$	50	mA
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$

● Electrical characteristic ( $T_a=25^\circ\text{C}$ )

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	$\mu\text{A}$	$V_R=30\text{V}$
Capacitance between terminals	$C_t$	-	-	0.45	pF	$V_R=1.0\text{V}$ , $f=1\text{MHz}$
Forward resistance	$R_f$	-	-	1.5	$\Omega$	$I_F=10\text{mA}$ , $f=100\text{MHz}$
	$R_f$	-	-	2.5	$\Omega$	$I_F=3\text{mA}$ , $f=100\text{MHz}$

# Diodes

## Electrical characteristic curves



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