

PIN Diode

RN142ZS8A

● **Applications**

High frequency switching

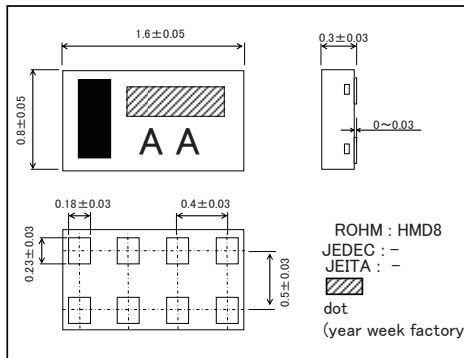
● **Features**

- 1) Ultra small mold type (HMD8)
- 2) Low high-frequency forward resistance (rF) / low capacitance (C_T).

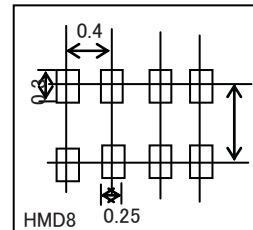
● **Construction**

Silicon epitaxial planar

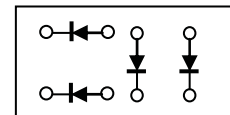
● **Dimensions (Unit : mm)**



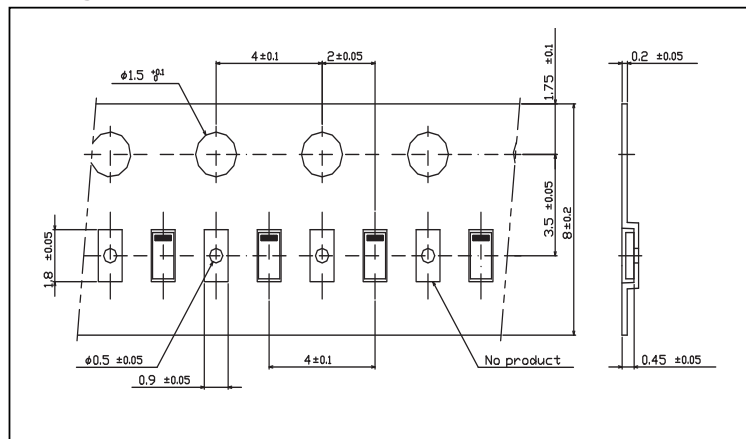
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping specifications (Unit : mm)**



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

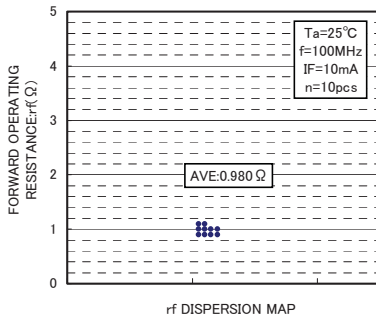
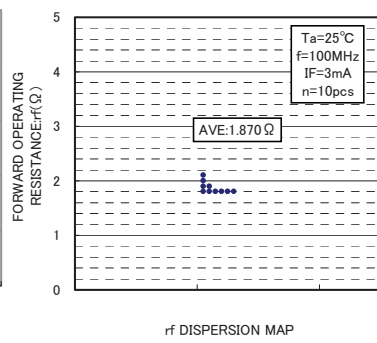
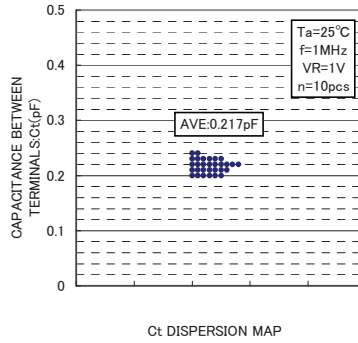
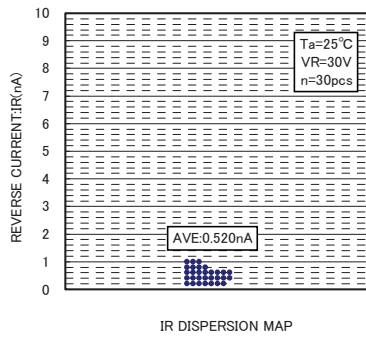
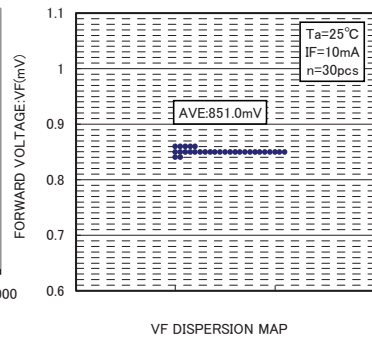
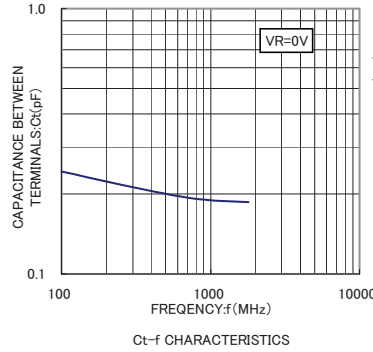
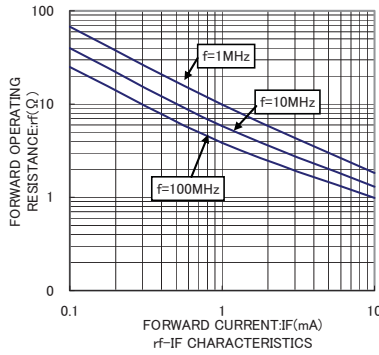
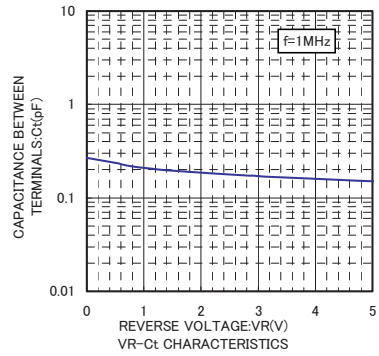
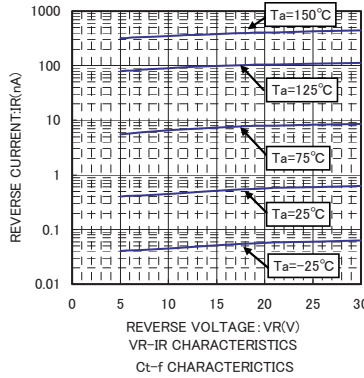
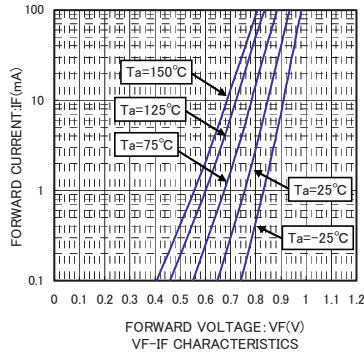
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V _R	30	V
Forward current(DC)	I _F	50	mA
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

● **Electrical characteristic (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F	-	-	1.0	V	I _F =10mA
Reverse current	I _R	-	-	0.1	μA	V _R =30V
Capacitance between terminals	C _t	-	-	0.45	pF	V _R =1.0V, f=1MHz
Forward resistance	R _f	-	-	1.5	Ω	I _F =10mA, f=100MHz
	R _f	-	-	2.5	Ω	I _F =3mA, f=100MHz

Diodes

● Electrical characteristic curves



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