# **PIN Diode**

## RN142ZS8A

#### Applications

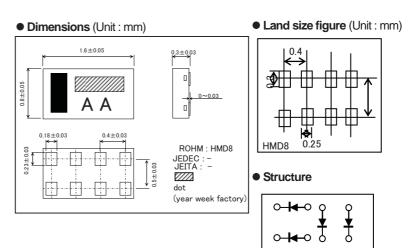
High frequency switching

#### Features

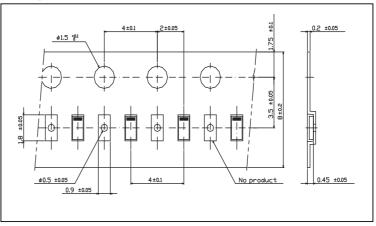
- 1) Ultra small mold type (HMD8)
- Low high-frequency forward resistance (rF) / low capacitance (C<sub>T</sub>).

#### Construction

Silicon epitaxial planar



#### • Taping specifications (Unit : mm)



#### • Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	V <sub>R</sub>	30	V
Forward current(DC)	۱ <sub>۶</sub>	50	mA
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

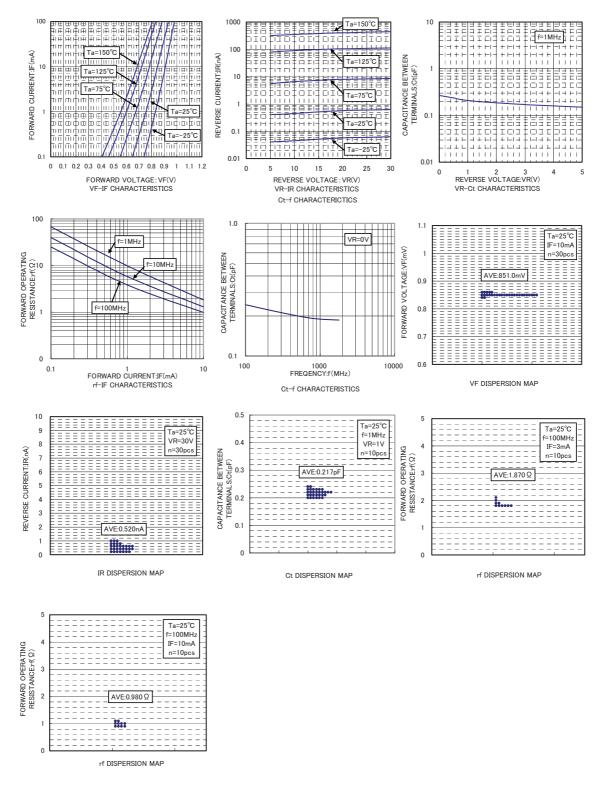
#### • Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	1.0	V	I <sub>F</sub> =10mA
Reverse current	I <sub>R</sub>	-	-	0.1	μA	V <sub>R</sub> =30V
Capacitance between terminals	Ct	-	-	0.45	pF	V <sub>R</sub> =1.0V , f=1MHz
Forward resistance	Rf	-	-	1.5	Ω	I <sub>F</sub> =10mA,f=100MHz
	Rf	-	-	2.5	Ω	I <sub>F</sub> =3mA,f=100MHz



#### Diodes

#### • Electrical characteristic curves



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