

PIN diode

RN142S

●Application

High frequency switching

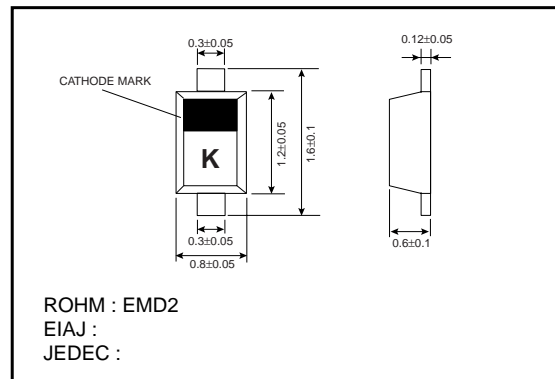
●Features

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

●Construction

Silicon epitaxial planer

●External dimensions (Units : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	60	V
Forward current	I_F	100	mA
Power dissipation	P_d	150	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55~+150	°C

●Electrical characteristics (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	$V_R=60\text{V}$
Capacitance between terminal	C_T	-	-	0.45	pF	$V_R=1.0\text{V}$, $f=1.0\text{MHz}$
Forward resistance	r_F	-	-	3.0	Ω	$I_F=3\text{mA}$, $f=100\text{MHz}$
		-	-	2.0	Ω	$I_F=10\text{mA}$, $f=100\text{MHz}$

* Please pay attention to static electricity when handling.

Diodes

●Electrical characteristic curves (Ta=25°C)

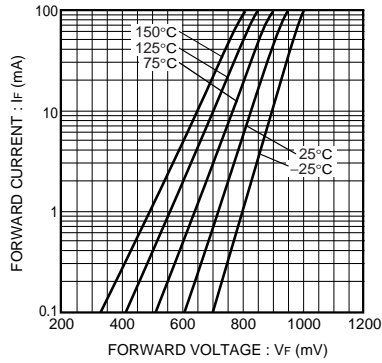


Fig.1 Forward characteristics

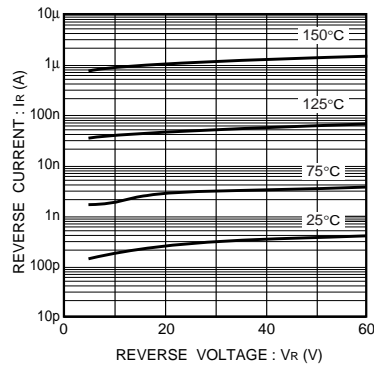


Fig.2 Reverse characteristics

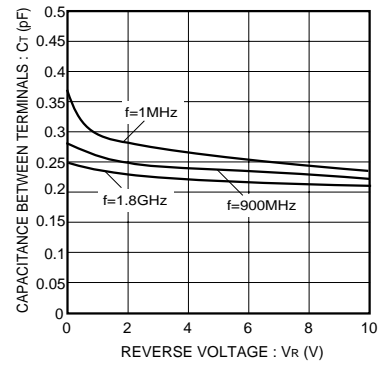


Fig.3 Capacitance vs. Reverse voltage

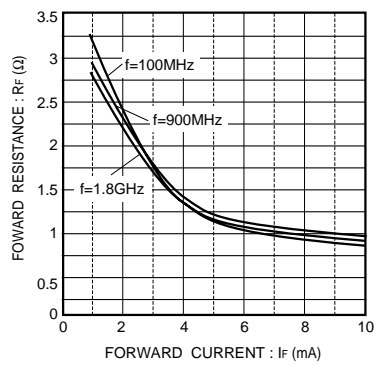


Fig.4 Forward resistance vs. Forward current

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