PIN diode

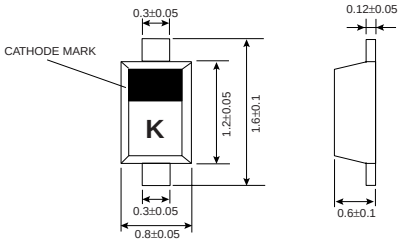
RN142S

●**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)



ROHM : EMD2
EIAJ :
JEDEC :

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

Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	60	V
Forward current	I_F	100	mA
Power dissipation	Pd	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−55~+150	°C

●**Electrical characteristics** (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=60V
Capacitance between terminal	C_T	–	–	0.45	pF	V_R=1.0V, f=1.0MHz
Forward resistance	r_F	–	–	3.0	Ω	I_F=3mA, f=100MHz
		–	–	2.0	Ω	I_F=10mA, f=100MHz

∗ Please pay attention to static electricity when handling.

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

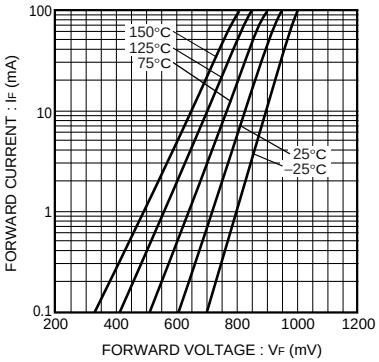


Fig.1 Forward caharacteristics

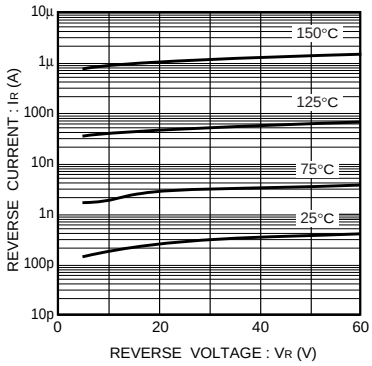


Fig.2 Reverse characteristics

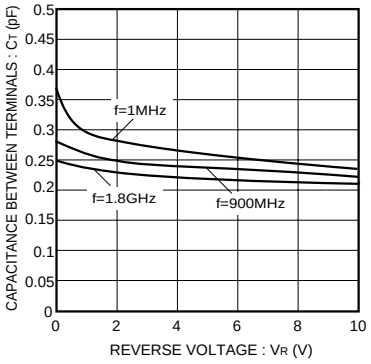


Fig.3 Capacitance vs. Reverse voltage

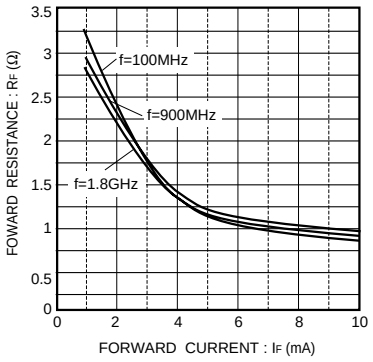


Fig.4 Forward resistance vs. Forward current