PIN diode (Silicon Epitaxial Planer)

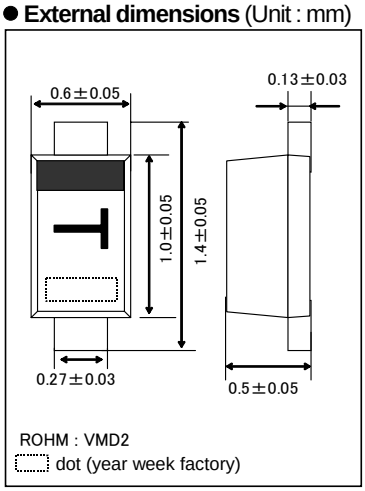
RN152G

● **Applications**
High frequency switching

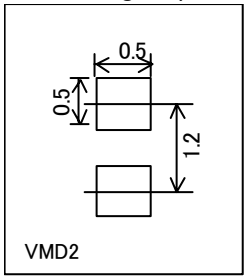
● **Features**
1) Ultra small mold type. (VMD2)
2) High frequency resistance which is small and low capacity.

● **Construction**
Silicon epitaxial planar

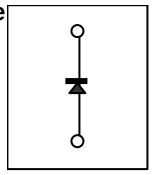
● **External dimensions** (Unit : mm)



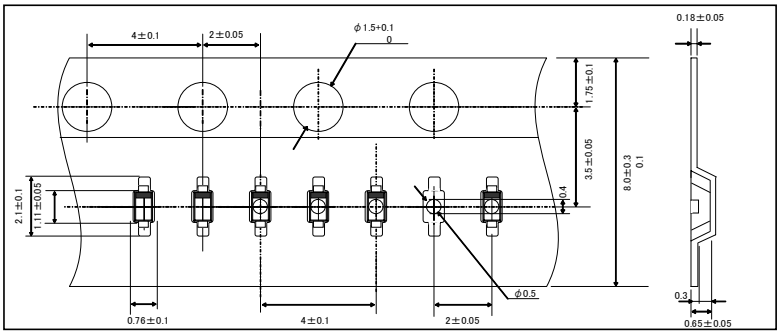
● **Land size figure** (Unit : mm)



● **Structure**



● **Taping dimensions** (Unit : mm)



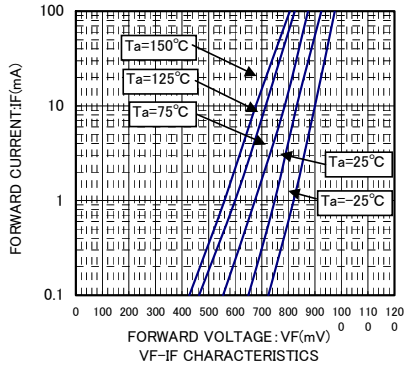
● **Absolute maximum ratings** (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	100	mA
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-55 to +150	℃
Operation temperature	Topor	-55 to +150	℃

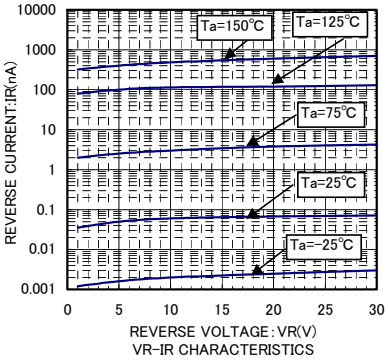
● **Electrical characteristic** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1	V	I_F=10mA
Reverse current	I_R	-	-	0.1	μA	V_R=30V
Capacitance between terminals	Ct	0.15	-	0.45	pF	V_R=1V , f=1MHz
Forward frequency resistance	Rf	-	-	4.8	Ω	I_F=1mA,f=100MHz
		-	-	1.8	Ω	I_F=10mA,f=100MHz

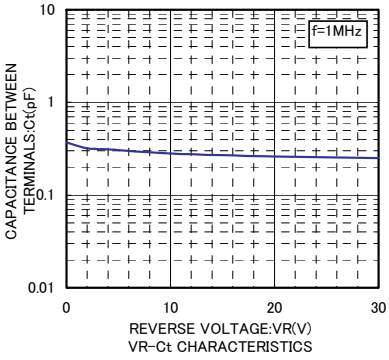
● **Electrical characteristic curves**



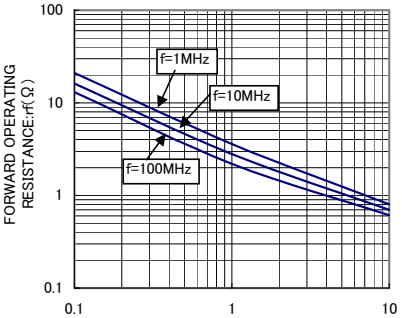
VF-IF CHARACTERISTICS



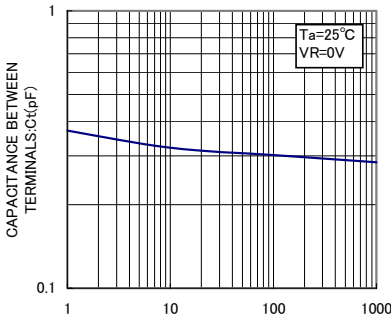
VR-IR CHARACTERISTICS



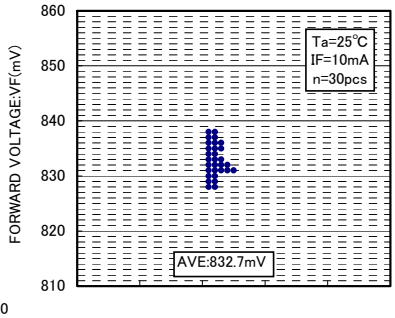
VR-Ct CHARACTERISTICS



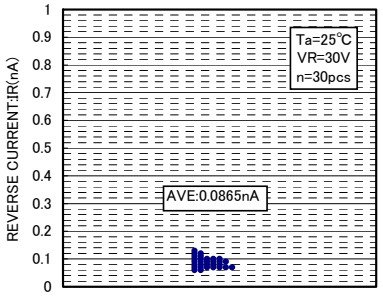
rf-IF CHARACTERISTICS



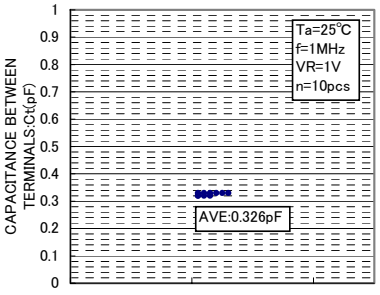
Ct-f CHARACTERISTICS



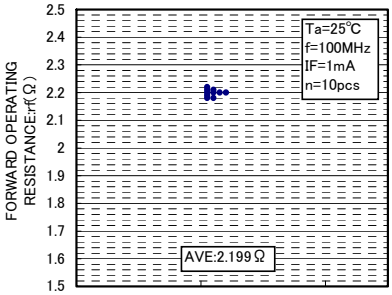
VF DISPERSION MAP



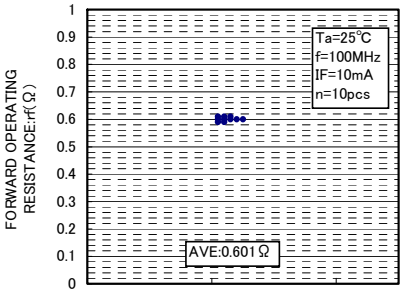
IR DISPERSION MAP



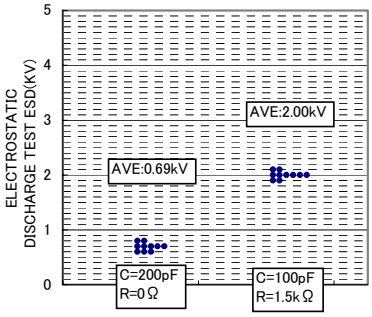
Ct DISPERSION MAP



FORWARD CURRENT:IF(mA)
rf DISPERSION MAP



FORWARD CURRENT:IF(mA)
rf DISPERSION MAP



ESD DISPERSION MAP

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