Low Capacitance / Low Forward Resistance PIN Diodes

RN142G/S

Application
High-frequency switching

Features
- Sub-miniature mold type (VMD2/EMD2)
- Low capacity with very low high-frequency forward resistance

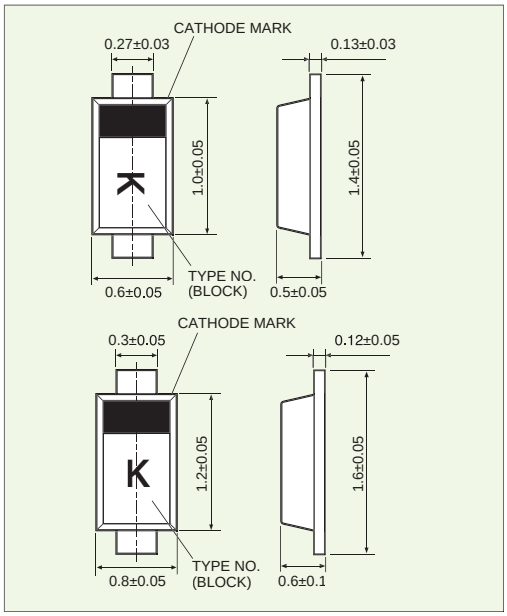
Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Rating	Unit
DC reverse voltage	V_R	60	V
DC forward current	I_F	100	mA
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+150	°C

Electrical Characteristics (Ta=25°C)

Item	Symbol	Condition	Standard
Forward voltage	V_F	I_F=10mA	1.0V MAX.
Reverse current	I_R	V_R=60V	0.1μA MAX.
Capacity between pins	C_t	V_R=1.0V f=1.0MHz	0.45pFMAX.
High-frequency resistance	Rf	I_F=3mA f=100MHz	3.0ΩMAX.
		I_F=10mA f=100MHz	2.0ΩMAX.

External Dimensions (Unit: mm)



RN152G

Application
High-frequency switching

Features
- Sub-miniature mold type (VMD2)
- Low capacity with very low high-frequency forward resistance

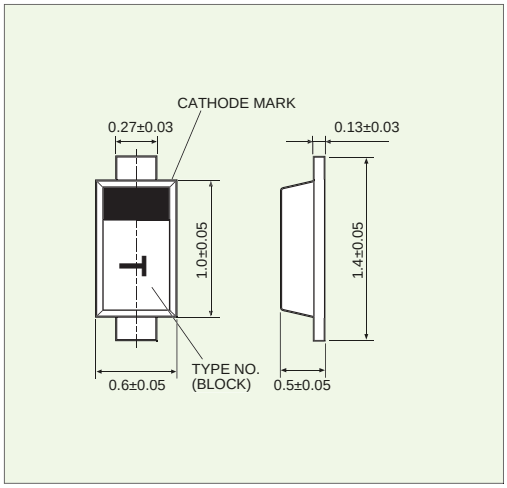
Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Rating	Unit
DC reverse voltage	V_R	30	V
DC forward current	I_F	100	mA
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+150	°C

Electrical Characteristics (Ta=25 °C)

Item	Symbol	Condition	Standard
Forward voltage	V_F	I_F=10mA	1.0V MAX.
Reverse current	I_R	V_R=30V	0.1μA MAX.
Capacity between pins	C_t	V_R=1.0V f=1.0MHz	0.15pFMIN. 0.45pFMAX.
High-frequency resistance	Rf	I_F=1mA f=100MHz	4.8ΩMAX.
		I_F=10mA f=100MHz	1.8ΩMAX.

External Dimensions (Unit: mm)



RN242CS

Application
High-frequency switching

Features
- Sub-miniature mold type (VMD2)
- Low capacity with very low high-frequency forward resistance

Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Rating	Unit
DC reverse voltage	V_R	30	V
DC forward current	I_F	100	mA
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+150	°C

Electrical Characteristics (Ta=25°C)

Item	Symbol	Condition	Standard
Forward voltage	V_F	I_F=10mA	1.0V MAX.
Reverse current	I_R	V_R=30V	0.1μA MAX.
Capacity between pins	C_t	V_R=1.0V f=1.0MHz	0.35pFMAX.
High-frequency resistance	Rf	I_F=3mA f=100MHz	3.0ΩMAX.
		I_F=10mA f=100MHz	1.5ΩMAX.

External Dimensions (Unit: mm)