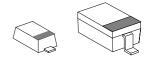


VARACTOR DIODE

■GENERAL DESCRIPTION

NJX1560/1561 is a GaAs varactor diode with very low toal capacitance. It is suited for VCO or detector up to SHF band. It features low total capacitance and high capacitance ratio. It is adopted a very small surface-mount plastic package.



NJX1560

NJX1561

FEATURE

- ●High Total Capacitance Ratio 3.3 (NJX1560) / 3.2(NJX1561)
- Very Small SMD Package (VSDP / SDP)

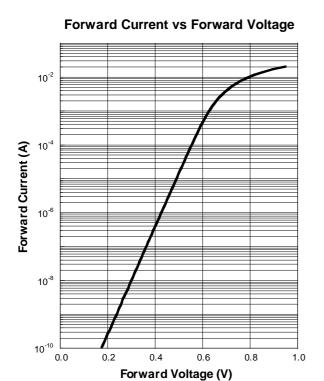
■ABSOLUTE MAXIMUM RATINGS

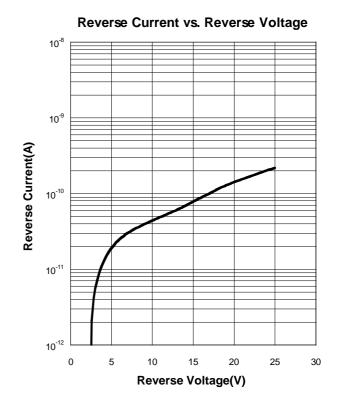
 $(T_a=25^{\circ}C)$ **UNITS SYMBOL RATINGS PARAMETER** V Reverse Voltage V_R 25 **Forward Current** I_{F} 10 mA °C T_{OP} -40~+85 Operating Temperature °C Storage Temperature T_{STG} -55~+125

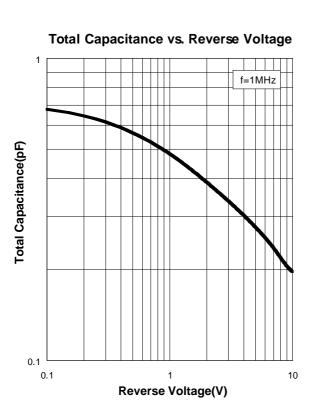
■ELECTRICAL CHARACTERISTIC

 $(T_a=25^{\circ}C)$ **SYMBOL CONDITIONS** TYP MAX **PARAMETER** MIN UNITS ٧ Forward Voltage V_{F} $I_F=10mA$ 8.0 0.95 Reverse Voltage V_R $I_R=10uA$ 25 V Reverse Current I_R $V_R=20V$ 1.0 uA $V_R=0V$, f=1MHz**Total Capacitance 1** C_{t1} pF NJX1560 0.59 0.66 NJX1561 0.61 0.70 $V_R=10V$, f=1MHzpF **Total Capacitance 2** C_{t2} NJX1560 0.20 0.30 NJX1561 0.22 0.32 **Total Capacitance Ratio** C₁₁ / C₁₂ C_{t1}/C_{t2} NJX1560 3.3 NJX1561 3.2

TYPICAL CHARACTERISTICS

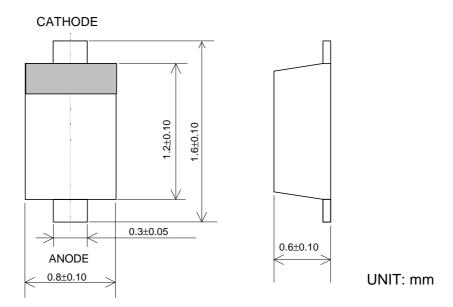




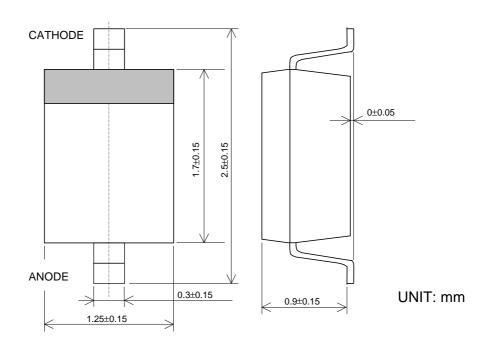


■PACKAGE OUTLINE

1) NJX1560 (VSDP)



2) NJX1561 (SDP)



Cautions on using this product

This product contains Gallium-Arsenide (GaAs) which is a harmful material.

- Do NOT eat or put into mouth.
- Do NOT dispose in fire or break up this product.
- Do NOT chemically make gas or powder with this product.
- To waste this product, please obey the relating law of your country.

This product may be damaged with electric static discharge (ESD) or spike voltage. Please handle with care to avoid these damages.

[CAUTION]

The specifications on this databook are only given for information , without any guarantee as regards either mistakes or omissions. The application circuits in this databook are described only to show representative usages of the product and not intended for the guarantee or permission of any right including the industrial rights.