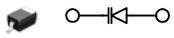
## 7V series variable capacitance diode for communications equipment
## 7V系通信機用電圧可変容量ダイオード



**KV1861E**
**(URD)**

## FEATURES

- Excellent Linearity of The CV Curve
- Extra Large Capacitance Ratio: A=4.7to
- Extra Low Series Resistance: $R_S$=0.40Ω(typ.)

- CV特性の優れた直線性
- 極めて大きな容量変化比: A=4.7~
- 極めて低い直列抵抗: $R_S$=0.40Ω(typ.)

## SELECTION CHARTS

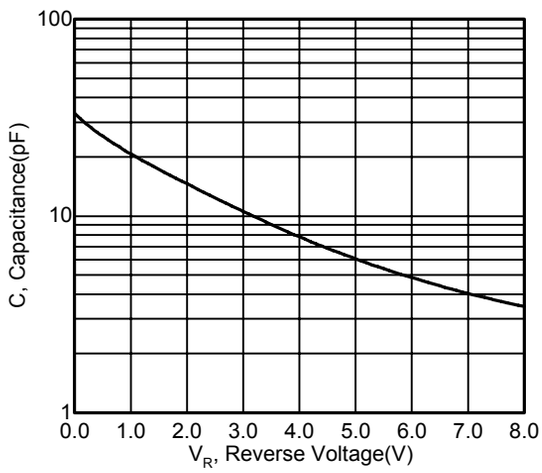
| Type | $V_{R.MAX}$ | Capacitance(pF) | | | | Capacitance ratio | | | | $Rs_{MAX}$ | C tolerance | $I_F$ | $P_D$ | $T_{STG}$ | $T_{OP}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (V) | Min. | Typ. | Max. | $V_R$(V) | Min. | Typ. | Max. | $V_R$(V) | | $\Delta C_{MAX}$ | (mA) | (mW) | (°C) | (°C) |
| **KV1861E** | 18 | 19.75<br>3.65 | | 22.25<br>4.45 | 1<br>7 | 4.70 | | | 1/7 | 0.7<br>@8pF<br>470MHz | | 7 | 25 | -55 to<br>150 | -55 to<br>85 |

* Diode Capacitance measured with Agilent 4279A or equivalent instruments (at OSC level 20±5mVrms)
容量測定器は、Agilent 4279A又は相当品。OSCレベル 20±5mVrms。

* Resistance meter is Agilent 4291B or equivalent instruments.
直列抵抗測定器は、Agilent 4291B又は相当品。

## TYPICAL CHARCTERISTICS

■ Capacitance versus Reverse Voltage
逆方向電圧対容量 f=1MHz, $T_A$=25°C




■ Series Resistance versus Frequency
周波数対直列抵抗 $V_R$=1.5V, $T_A$=25°C