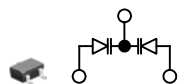
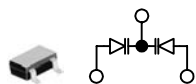


4.5V series variable capacitance diode for communications equipment 4.5V系通信機電圧可変容量ダイオード



KV1870R
(SOT23C-3)



KV1870S
(SOT23-3)

FEATURES

- Very Low Operating Voltage: $V_{OP}=1.0$ to $4.5V$
- Excellent Linearity of The CV Curve
- Extra Large Capacitance Ratio: $A=5.00$ to
- Extra Low Series Resistance: $R_S=0.43\Omega$ (typ.)
- 低電圧動作: $V_{OP}=1.0$ to $4.5V$
- CV特性の優れた直線性
- 極めて大きな容量変化比: $A=5.00\sim$
- 極めて低い直列抵抗: $R_S=0.43\Omega$ (typ.)

CLASSIFICATION

Rank		1	2	3
C ₁	MIN	65.80	68.27	70.74
	MAX	69.25	71.72	74.20

SELECTION CHARTS

Type	V _{R,MAX} (V)	Capacitance(pF)				Capacitance ratio				R _{S,MAX}	C tolerance ΔC_{MAX}	I _F (mA)	P _D (mW)	T _{STG} (°C)	T _{OP} (°C)
		Min.	Typ.	Max.	V _R (V)	Min.	Typ.	Max.	V _R (V)						
KV1870R	18	65.80 12.00	70.00 13.40	74.20 14.80	1 4.5	5.00			1/5	0.5 @1.5V 100MHz		50	100	-55 to 150	-55 to 85
KV1870S	18	65.80 12.00	70.00 13.40	74.20 14.80	1 4.5	5.00			1/5	0.5 @1.5V 100MHz		50	100	-55 to 150	-55 to 85

* Capacitance measured in parallel connections.

容量値は、Back to Back Typeの2つのダイオードの平均値です。

* Diode Capacitance measured with Agilent 4279A or equivalent instruments (at OSC level $20\pm 5mV_{rms}$)

容量測定器は、Agilent 4279A又は相当品。OSCレベル $20\pm 5mV_{rms}$ 。

* Resistance meter is Agilent 4291B or equivalent instruments.

直列抵抗測定器は、Agilent 4291B又は相当品。

TYPICAL CHARACTERISTICS

- Capacitance versus Reverse Voltage

逆方向電圧対容量

$f=1MHz, T_A=25^\circ C$

- Series Resistance versus Frequency

周波数対直列抵抗

$V_R=1.5V, T_A=25^\circ C$

