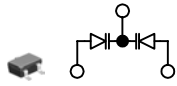
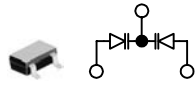


3V series variable capacitance diode for FM tuning
3V系FMチューナ用電圧可変容量ダイオード



KV1780R
(SOT23C-3)



KV1780S
(SOT23-3)

FEATURES

- Included Twin Element
- Very Small Tolerance of Element Being Next Device To Each Other
- Very low operating voltage: $V_{OP}=0.5$ to $3.0V$
- Excellent Linearity of The CV Curve
- Extra Large Capacitance Ratio: $A=3.15$ to
- Very Small Series Resistance: R_S to 0.35Ω
- ツインタイプ素子1組搭載
- 小さい隣接デバイス間容量偏差
- 低電圧動作: $V_{OP}=0.5\sim 3.0V$
- CV特性の優れた直線性
- 極めて大きな容量変化比: $A=3.15\sim$
- 小さい直列抵抗: $R_S\sim 0.35\Omega$

CLASSIFICATION

C	Rank	1	2	3
	$C_{0.5}$	MIN	84.67	87.88
	MAX	88.77	92.14	95.64

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.	$V_R(V)$						
KV1780R	18	84.67 21.00	90.20 24.80	95.64 28.59	0.5 3	3.15	3.64		0.5/3	0.35 @1.5V 100MHz		50	100	-55 to 150	-55 to 85
KV1780S	18	84.67 21.00	90.20 24.80	95.64 28.59	0.5 3	3.15	3.64		0.5/3	0.35 @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 $20\pm 5mVrms$)
容量測定器は、Agilent 4279A又は相当品。OSCレベル $20\pm 5mVrms$ 。
- * Resistance meter is Agilent 4291B or equivalent instruments.
直列抵抗測定器は、Agilent 4291B又は相当品。
- * The tolerance of element that is next to each other in same reel is within 3% at C_2 , C_5 and C_8 .
同一リール内で隣接する素子の C_2 、 C_5 、 C_8 の容量偏差は3.0%以内。

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

