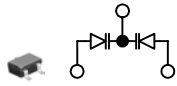
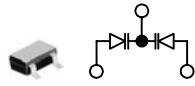


**9V series variable capacitance diode for FM tuning**  
**9V系FMチューナ用電圧可変容量ダイオード**



**KV1735R**  
(SOT23C-3)



**KV1735S**  
(SOT23-3)

**FEATURES**

- Included Twin Element
- Very Small Tolerance of Element Being Next Device To Each Other
- Excellent Linearity of The CV Curve
- Extra Large Capacitance Ratio: A=3.30 to
- Very Small Series Resistance:  $R_S$  to 0.3 $\Omega$
- 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
- CV特性の優れた直線性
- 極めて大きな容量変化比: A=3.30~
- 小さい直列抵抗:  $R_S$  ~0.3 $\Omega$

**CLASSIFICATION**

C	Rank				
	1	2	3	4	
C <sub>2</sub>	MIN	68.86	70.81	72.80	74.85
	MAX	71.52	73.53	75.61	77.74

**SELECTION CHARTS**

Type	V <sub>R,MAX</sub> (V)	Capacitance(pF)			V <sub>R</sub> (V)	Capacitance ratio			R <sub>S,MAX</sub>	C tolerance $\Delta C_{MAX}$	I <sub>F</sub> (mA)	P <sub>D</sub> (mW)	T <sub>STG</sub> (°C)	T <sub>OP</sub> (°C)
		Min.	Typ.	Max.		Min.	Typ.	Max.						
KV1735R	18	68.86		77.74	2	3.3		4.6	2/9	0.3 @2V 100MHz	50	100	-55 to 150	-55 to 85
		26.39		36.69	6									
		16.91		22.25	9									
KV1735S	18	68.86		77.74	2	3.3		4.6	2/9	0.3 @2V 100MHz	50	100	-55 to 150	-55 to 85
		26.39		36.69	6									
		16.91		22.25	9									

- \* 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±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 CHARACTERISTICS**

- Capacitance versus Reverse Voltage  
逆方向電圧対容量 f=1MHz, T<sub>A</sub>=25°C
- Series Resistance versus Frequency  
周波数対直列抵抗 V<sub>R</sub>=1.5V, T<sub>A</sub>=25°C

