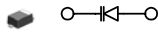


**3V series variable capacitance diode for communications equipment**  
**3V系通信機用電圧可変容量ダイオード**



**KV1837K**  
(UFD)

**FEATURES**

- Very Low Operating Voltage:  $V_{OP}=1.0$  to  $3.0V$
- Excellent Linearity of The CV Curve
- Extra Large Capacitance Ratio:  $A=2.60$  to
- 低電圧動作:  $V_{OP}=1.0\sim 3.0V$
- CV特性の優れた直線性
- 極めて大きな容量変化比:  $A=2.60\sim$

**CLASSIFICATION**

Rank		1	2	3
C <sub>1</sub>	MIN	14.25	15.00	16.70
	MAX	15.30	17.00	17.75
C <sub>3</sub>	MIN	4.50	5.00	5.90
	MAX	5.20	6.00	6.70

**SELECTION CHARTS**

Type	V <sub>R,MAX</sub> (V)	Capacitance(pF)				Capacitance ratio				R <sub>S,MAX</sub>	C tolerance ΔC <sub>MAX</sub>	I <sub>F</sub> (mA)	P <sub>D</sub> (mW)	T <sub>STG</sub> (°C)	T <sub>OP</sub> (°C)
		Min.	Typ.	Max.	V <sub>R</sub> (V)	Min.	Typ.	Max.	V <sub>R</sub> (V)						
KV1837K	28	14.25 4.50	16.00 5.50	17.75 6.70	1 3	2.6	2.9		1/3	1.2 @1.5V 100MHz		10	50	-55 to 150	-55 to 85

\* 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

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

