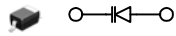
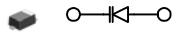


**6V series variable capacitance diode for communications equipment**  
**6V系通信機用電圧可変容量ダイオード**



**KV1841E**  
(URD)



**KV1841K**  
(UFD)

**FEATURES**

- Very Low Operating Voltage:  $V_{OP}=1.0$  to  $3.0V$
- Excellent Linearity of The CV Curve
- Extra Large Capacitance Ratio:  $A=2.35$  to
- Extra Low Series Resistance:  $R_S=0.25\Omega$ (typ.)
- 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:  $A=2.35\sim$
- 極めて低い直列抵抗:  $R_S=0.25\Omega$ (typ.)

**CLASSIFICATION**

C	Rank	1	2	3	4
	C <sub>2</sub>	MIN	13.50	13.93	14.35
	MAX	14.23	14.65	15.08	15.50

**SELECTION CHARTS**

Type	$V_{R,MAX}$ (V)	Capacitance(pF)			$V_R$ (V)	Capacitance ratio			$R_{S,MAX}$	C tolerance $\Delta C_{MAX}$	$I_F$ (mA)	$P_D$ (mW)	$T_{STG}$ (°C)	$T_{OP}$ (°C)
		Min.	Typ.	Max.		Min.	Typ.	Max.						
KV1841E	18	13.5 6.80	14.5 7.50	15.5 8.30	2 6	2.35			1/6 0.3 @11Pf 470MHz		7	25	-55 to 150	-55 to 85
KV1841K	18	13.5 6.80	14.5 7.50	15.5 8.30	2 6	2.35			1/6 0.3 @11pF 470MHz		7	25	-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  $V_R=1.5V, T_A=25^\circ C$

