

# **RKV607KL**

# Variable Capacitance Diode for VCO

REJ03G1477-0100 Rev.1.00 Dec 17, 2007

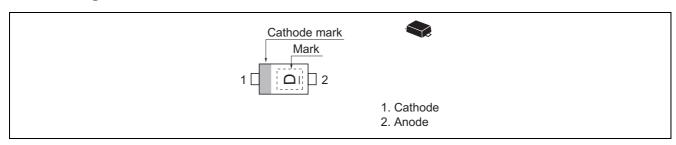
#### **Features**

- High capacitance ratio. (n = 1.75 to 2.00)
- Low series resistance. (rs =  $0.85 \Omega \text{ max}$ )
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

### **Ordering Information**

Part No.	Part No. Laser Mark		Package Code	
RKV607KL	D	EFP	PXSF0002ZA-A	

# **Pin Arrangement**



# **Absolute Maximum Ratings**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

### **Electrical Characteristics**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	_	_	10	nA	V <sub>R</sub> = 15 V
	I <sub>R2</sub>	_	_	50		V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	C <sub>1</sub>	2.03	_	2.20	pF	V <sub>R</sub> = 1 V, f = 1 MHz
	C <sub>3</sub>	1.05	_	1.20		$V_R = 3 V, f = 1 MHz$
Capacitance ratio	n	1.75	_	2.00	_	C <sub>1</sub> /C <sub>3</sub>
Series resistance	r <sub>S</sub>	_	_	0.85	Ω	V <sub>R</sub> = 1 V, f = 470 MHz

Note: For EFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

### **Main Characteristic**

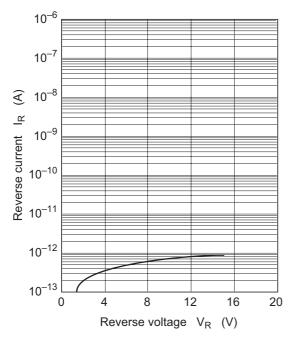


Fig.1 Reverse current vs. Reverse voltage

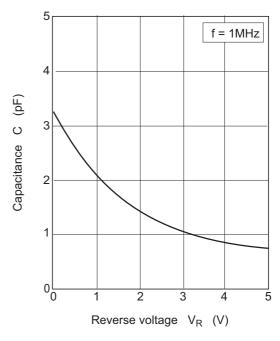
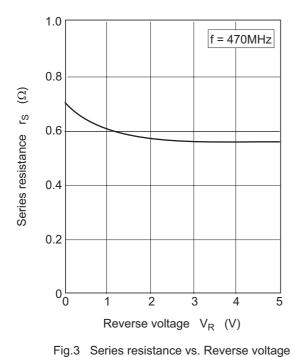
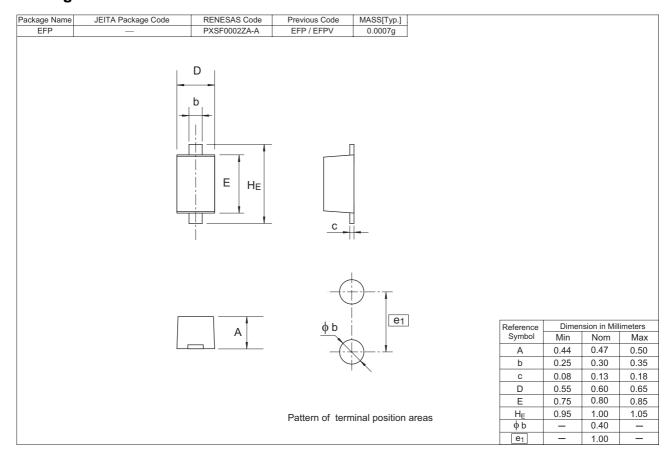


Fig.2 Capacitance vs. Reverse voltage



# **Package Dimensions**



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