

RKV607KL

Variable Capacitance Diode for VCO

REJ03G1477-0100 Rev.1.00 Dec 17, 2007

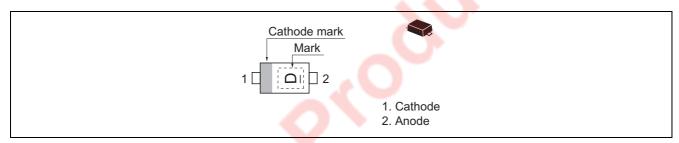
Features

- 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_R	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 _{R1}	_	_	10	nA	V _R = 15 V
	I _{R2}	_	_	50		V _R = 15 V, Ta = 60°C
Capacitance	C ₁	2.03	_	2.20	pF	V _R = 1 V, f = 1 MHz
	C ₃	1.05	_	1.20		$V_R = 3 V, f = 1 MHz$
Capacitance ratio	n	1.75	_	2.00	_	C ₁ /C ₃
Series resistance	r _S	_	_	0.85	Ω	$V_R = 1 V, f = 470 MHz$

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

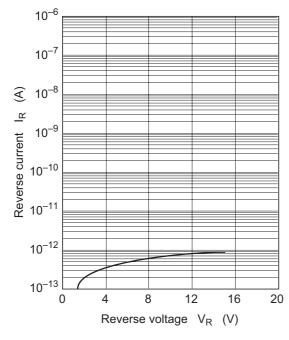


Fig.1 Reverse current vs. Reverse voltage

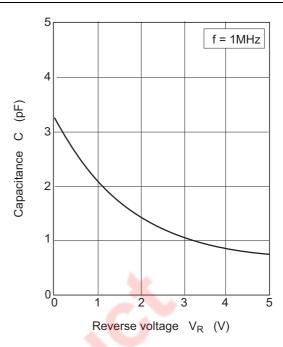
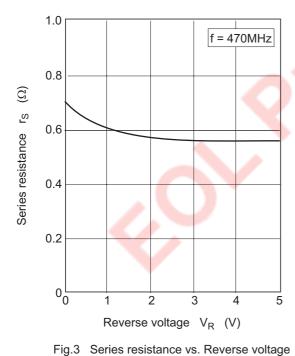
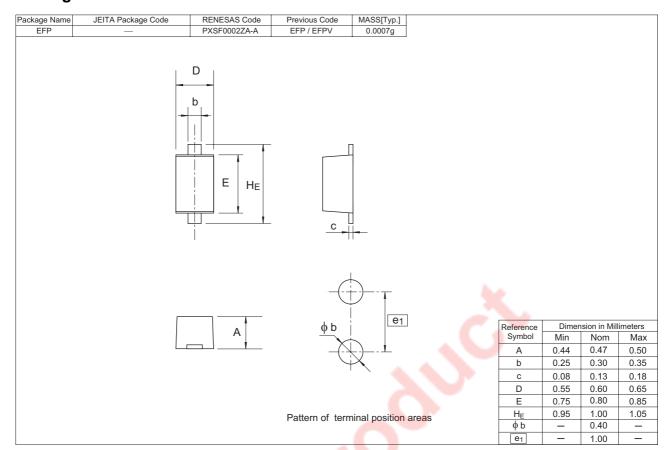


Fig.2 Capacitance vs. Reverse voltage



Package Dimensions



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