

RKV606KL

Variable Capacitance Diode for VCO

REJ03G1522-0100 Rev.1.00 Dec 17, 2007

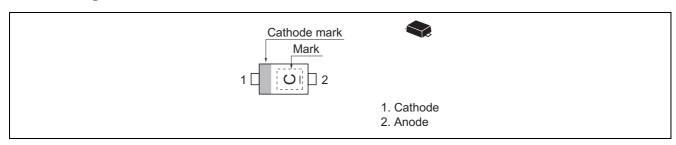
Features

- High capacitance ratio. (n = 1.81 to 2.08)
- Low series resistance. (rs = $0.75 \Omega \text{ max}$)
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

Ordering Information

Part No.	Part No. Laser Mark		Package Code	
RKV606KL	С	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	3.18	_	3.50	pF	$V_R = 1 V, f = 1 MHz$
	C ₃	1.63	_	1.80		$V_R = 3 V, f = 1 MHz$
Capacitance ratio	n	1.81	_	2.08	_	C ₁ /C ₃
Series resistance	r _S			0.75	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

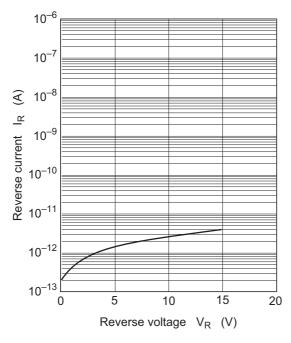


Fig.1 Reverse current vs. Reverse voltage

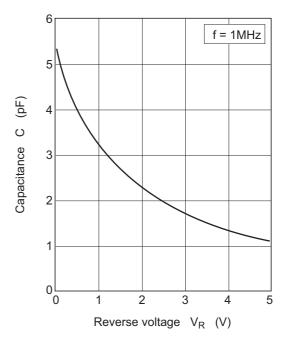
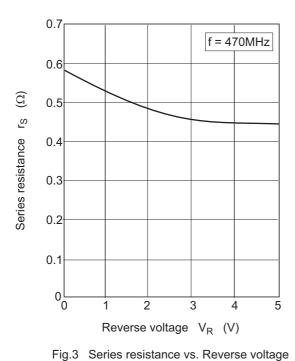
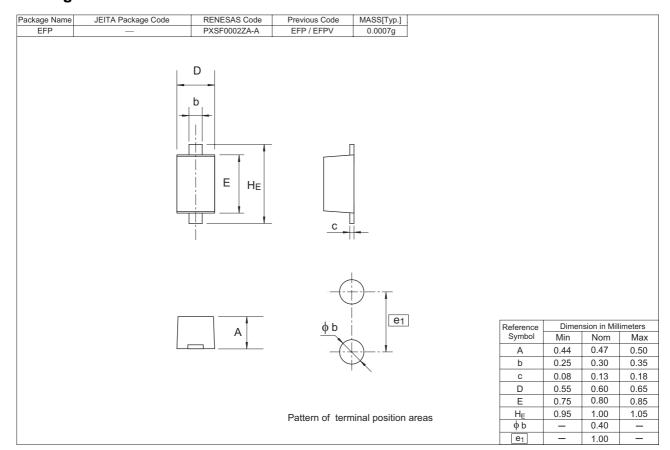


Fig.2 Capacitance vs. Reverse voltage



Package Dimensions



Renesas Technology Corp. sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

- Renesas lechnology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Notes:

 1. This document is provided for reference purposes only so that Renesas customers may select the appropriate Renesas products for their use. Renesas neither makes warrantes or representations with respect to the accuracy or completeness of the information in this document nor grants any license to any intellectual property girbs to any other rights of representations with respect to the information in this document in this document of the purpose of the respect of the information in this document in the product data, diagrams, charts, programs, algorithms, and application circuit examples.

 3. You should not use the products of the technology described in this document for the purpose of military use. When exporting the products or technology described herein, you should follow the applicable export control laws and regulations, and procedures required by such laws and regulations, and procedures required to change without any plan protein. Before purchasing or using any Renesas products listed in this document, in the development is satisfied. The procedure is a such as that disclosed through our website, (http://www.renesas.com)

 3. Renesas has a used reasonable care in compling the information included in this document, but requires a subject to the procedure of the procedure of the procedure of t



RENESAS SALES OFFICES

http://www.renesas.com

Refer to "http://www.renesas.com/en/network" for the latest and detailed information.

Renesas Technology America, Inc.

450 Holger Way, San Jose, CA 95134-1368, U.S.A Tel: <1> (408) 382-7500, Fax: <1> (408) 382-7501

Renesas Technology Europe Limited
Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K.
Tel: <44> (1628) 585-100, Fax: <44> (1628) 585-900

Renesas Technology (Shanghai) Co., Ltd.
Unit 204, 205, AZIACenter, No.1233 Lujiazui Ring Rd, Pudong District, Shanghai, China 200120 Tel: <86> (21) 5877-1818, Fax: <86> (21) 6887-7858/7898

Renesas Technology Hong Kong Ltd.
7th Floor, North Tower, World Finance Centre, Harbour City, Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2377-3473

Renesas Technology Taiwan Co., Ltd. 10th Floor, No.99, Fushing North Road, Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 3518-3399

Renesas Technology Singapore Pte. Ltd.

1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632 Tel: <65> 6213-0200, Fax: <65> 6278-8001

Renesas Technology Korea Co., Ltd. Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea Tel: <82> (2) 796-3115, Fax: <82> (2) 796-2145

Renesas Technology Malaysia Sdn. Bhd
Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jln Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510