

RKV500KJ

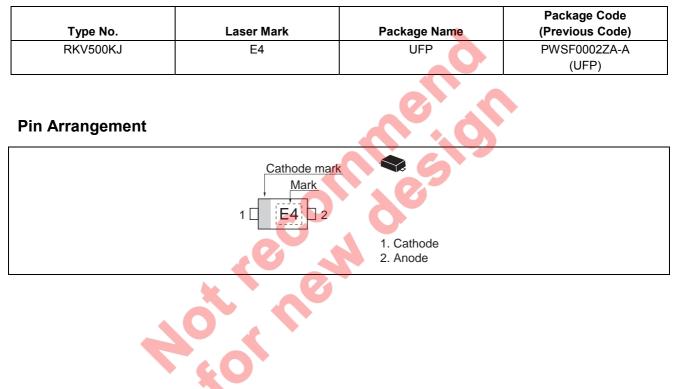
Variable Capacitance Diode for UHF/VHF tuner

REJ03G0621-0100 Rev.1.00 Apr 01, 2005

Features

- Low series resistance and good C-V linearity.
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.

Ordering Information





Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM} * ¹	35	V
Reverse voltage	V _R	34	V
Junction temperature	Tj	150	°C
Storage temperature	Tstg	–55 to +150	۵°

Note: 1. $R_L = 10 k\Omega$

Electrical Characteristics

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

ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	—	—	10	nA	V _R = 32 V
	I _{R2}	—	—	100		V _R = 32 V, Ta = 60°C
Capacitance	C ₂	14.15	—	15.75	pF	V _R = 2 V, f = 1 MHz
	C ₂₅	1.89	_	2.18		V _R = 25 V, f = 1 MHz
Capacitance ratio	n	6.3	—	—		C ₂ / C ₂₅
Series resistance	r _s	—	—	0.57	Ω	V _R = 5 V, f = 470 MHz
Matching error	∆C/C * ¹	_	—	1.8	%	$V_{R} = 2$ to 25 V, f = 1 MHz

. de to make Note: 1. C.C system (Continuous Connected taping system) enable to make any 10 pcs of ∆C/C continuous in a reel, expect extention to another group.

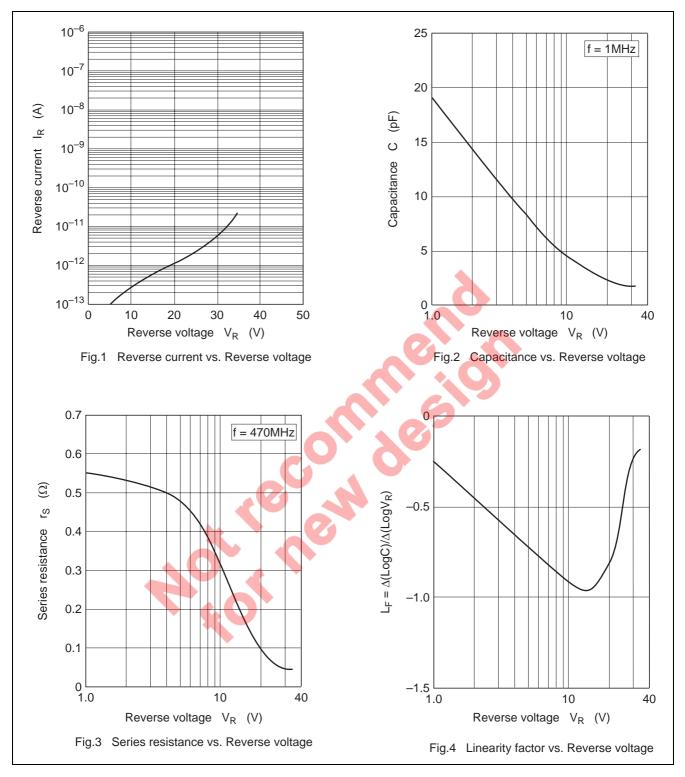
Calculate Matching Error,

 $\Delta C/C = \frac{(Cmax - Cmin)}{Cmin} \times 100 \ (\%)$

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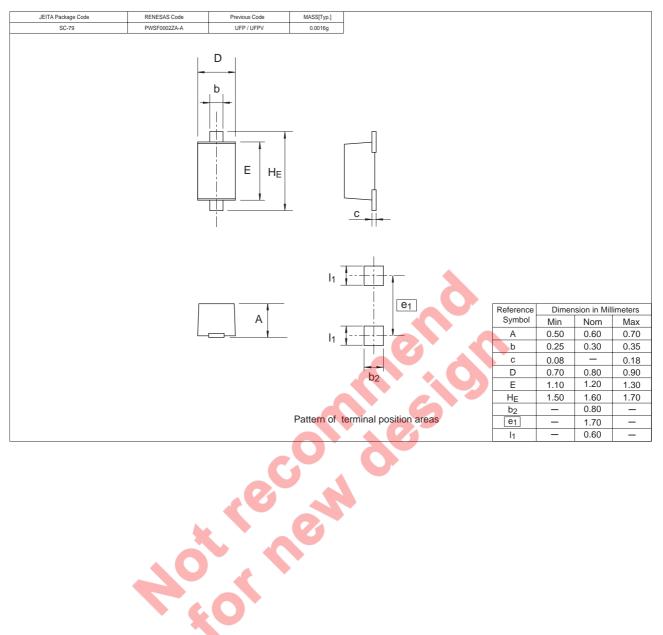
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Main Characteristic





Package Dimensions





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