

RKV603KP

Variable Capacitance Diode for VCO

REJ03G1362-0200 Rev.2.00 Feb 05, 2007

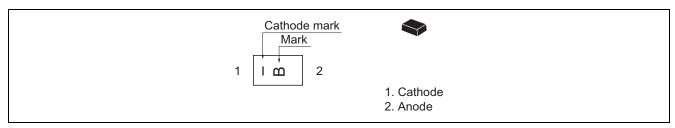
Features

- High capacitance ratio. (n = 2.10 to 2.40)
- Low series resistance. (rs = $0.75 \Omega \text{ max}$)
- Halogen free, Environmental friendly Package include Conformity to RoHS Directive.
- Ultra small Package (0.6mm×0.3mm Size leadless type).

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKV603KP	В	MP6	PXSN0002ZB-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 = 10 V
	I _{R2}	_	_	100		V _R = 10 V, Ta = 60°C
Capacitance	C _{0.5}	7.38	_	7.92	pF	V _R = 0.5 V, f = 1 MHz
	C _{2.5}	3.26	_	3.58		V _R = 2.5 V, f = 1 MHz
Capacitance ratio	n	2.10	_	2.40	_	C _{0.5} /C _{2.5}
Series resistance	r _S	_	_	0.75	Ω	V _R = 1 V, f = 470 MHz

Note: Please do not use the soldering iron due to avoid high stress to the MP6 package.

Main Characteristic

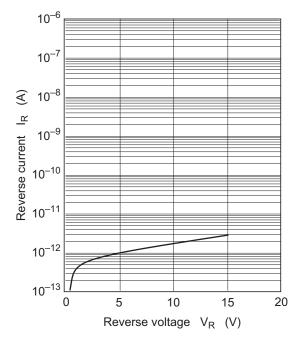
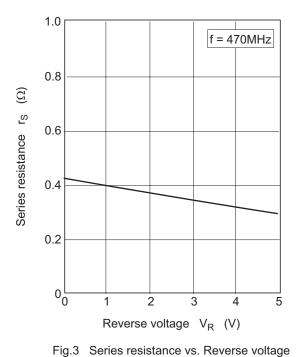


Fig.1 Reverse current vs. Reverse voltage



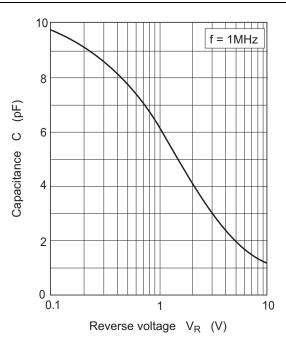
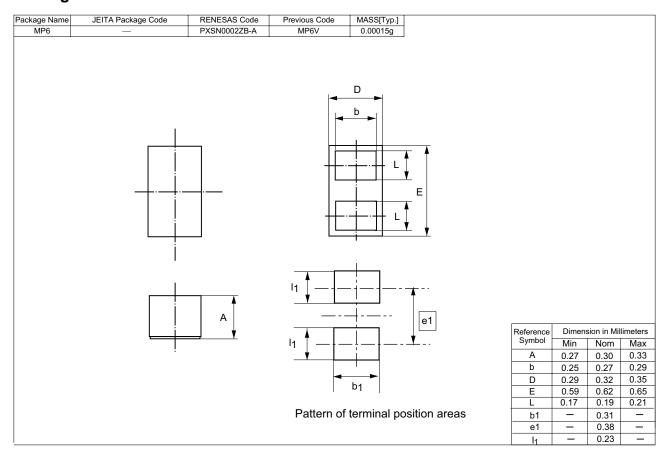


Fig.2 Capacitance vs. Reverse voltage

Package Dimensions



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April 1st, 2010 Renesas Electronics Corporation

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