

# RKV600KP

Variable Capacitance Diode for VCO

REJ03G1306-0200 Rev.2.00 Feb 05, 2007

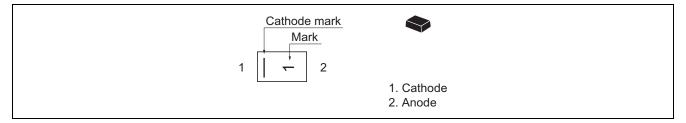
## Features

- High capacitance ratio. (n = 2.35 min)
- Low series resistance. (rs =  $0.60 \Omega \max$ )
- 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	
RKV600KP	1	MP6	PXSN0002ZB-A	

## **Pin Arrangement**





## **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	15	V
Junction temperature	Тј	125	°C
Storage temperature	Tstg	–55 to +125	۵°

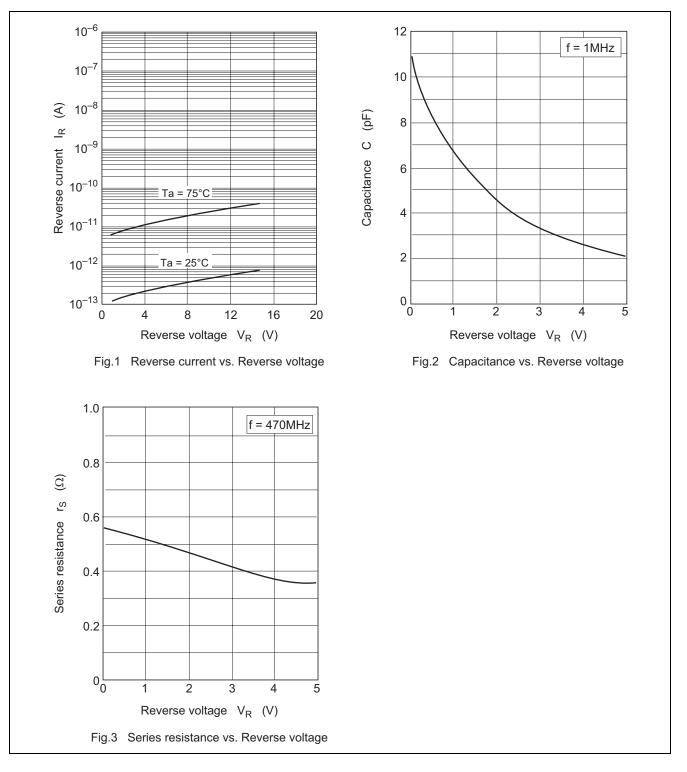
## **Electrical Characteristics**

						$(Ta = 25^{\circ}C)$
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>	_	_	100		V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	C <sub>1</sub>	6.62	_	7.02	pF	$V_{R} = 1 V, f = 1 MHz$
	C <sub>4</sub>	2.60	_	2.95		$V_{R} = 4 V, f = 1 MHz$
Capacitance ratio	n	2.35	_	2.55	—	C <sub>1</sub> / C <sub>4</sub>
Series resistance	r <sub>S</sub>	_	_	0.60	Ω	V <sub>R</sub> = 1 V, f = 470 MHz

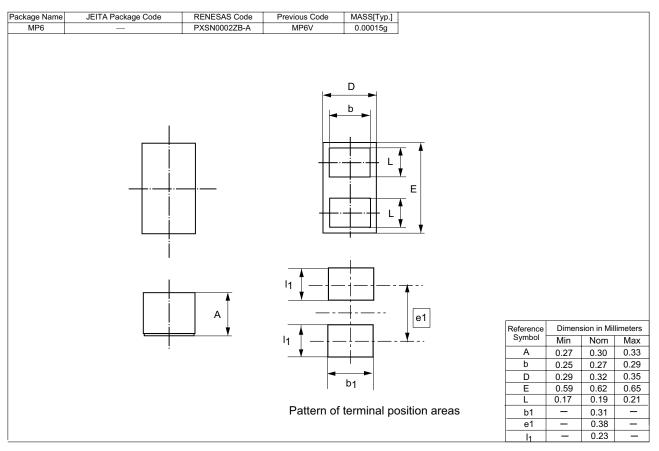
Note: 1. Please do not use the soldering iron due to avoid high stress to the MP6 package.



## **Main Characteristic**



## **Package Dimensions**





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