

# **RKV606KP**

Variable Capacitance Diode for VCO

REJ03G1523-0100 Rev.1.00 Dec 17, 2007

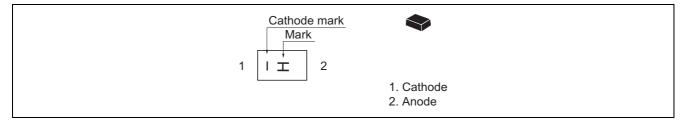
# Features

- High capacitance ratio. (n = 1.81 to 2.08)
- Low series resistance. (rs =  $0.75 \Omega \text{ max}$ )
- 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	
RKV606KP	Н	MP6	PXSN0002ZB-A	

# **Pin Arrangement**



# **Absolute Maximum Ratings**

(Ta = 25°C)

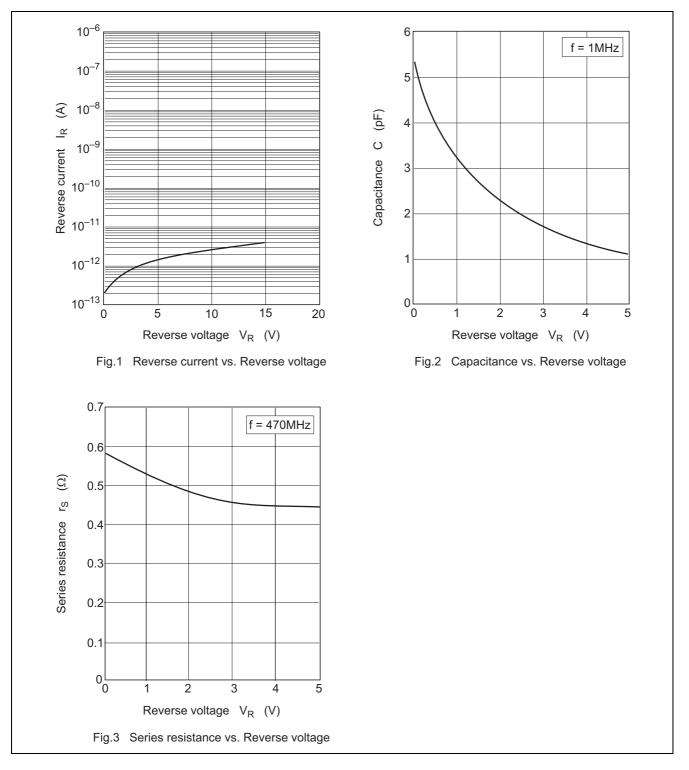
Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	15	V
Junction temperature	Тј	125	°C
Storage temperature	Tstg	–55 to +125	۵°

# **Electrical Characteristics**

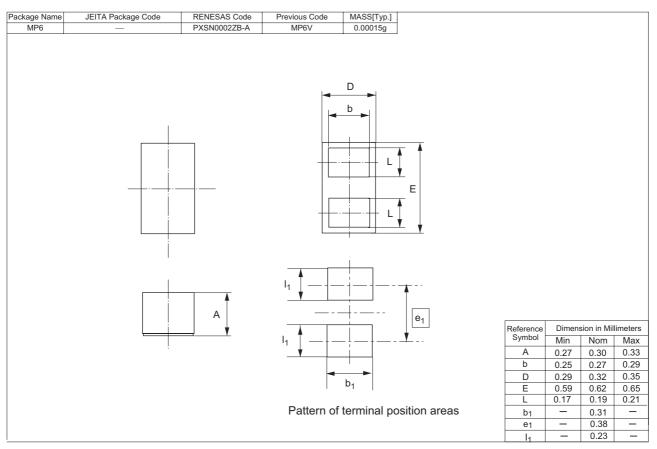
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	—	—	10	nA	V <sub>R</sub> = 15 V
	I <sub>R2</sub>	—	—	50		V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	C <sub>1</sub>	3.18	—	3.50	pF	$V_{R} = 1 V, f = 1 MHz$
	<b>C</b> <sub>3</sub>	1.63	—	1.80		V <sub>R</sub> = 3 V, f = 1 MHz
Capacitance ratio	n	1.81	_	2.08		C <sub>1</sub> /C <sub>3</sub>
Series resistance	r <sub>s</sub>	_	_	0.75	Ω	V <sub>R</sub> = 1 V, f = 470 MHz

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

# **Main Characteristic**



# **Package Dimensions**



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