

RKV607KP

Variable Capacitance Diode for VCO

REJ03G1478-0100

Rev.1.00

Dec 17, 2007

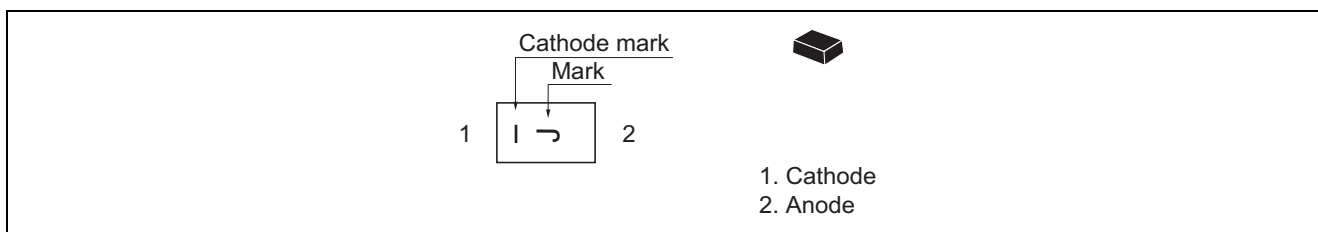
Features

- High capacitance ratio. ($n = 1.75$ to 2.00)
- Low series resistance. ($r_s = 0.85 \Omega$ max)
- Halogen free, Environmental friendly Package include Conformity to RoHS Directive.
- Ultra small leadless Package (0603type; the use of an undersurface electrode structure) for use in compact and products.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKV607KP	J	MP6	PXSN0002ZB-A

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_{R1}	—	—	10	nA	$V_R = 15\text{ V}$
	I_{R2}	—	—	50		$V_R = 15\text{ V}, T_a = 60^\circ\text{C}$
Capacitance	C_1	2.03	—	2.20	pF	$V_R = 1\text{ V}, f = 1\text{ MHz}$
	C_3	1.05	—	1.20		$V_R = 3\text{ V}, f = 1\text{ MHz}$
Capacitance ratio	n	1.75	—	2.00	—	C_1/C_3
Series resistance	r_s	—	—	0.85	Ω	$V_R = 1\text{ V}, f = 470\text{ MHz}$

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

Main Characteristic

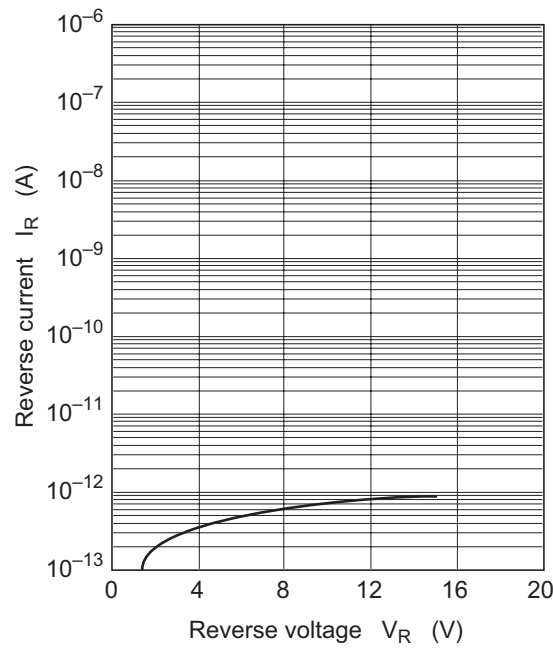


Fig.1 Reverse current vs. Reverse voltage

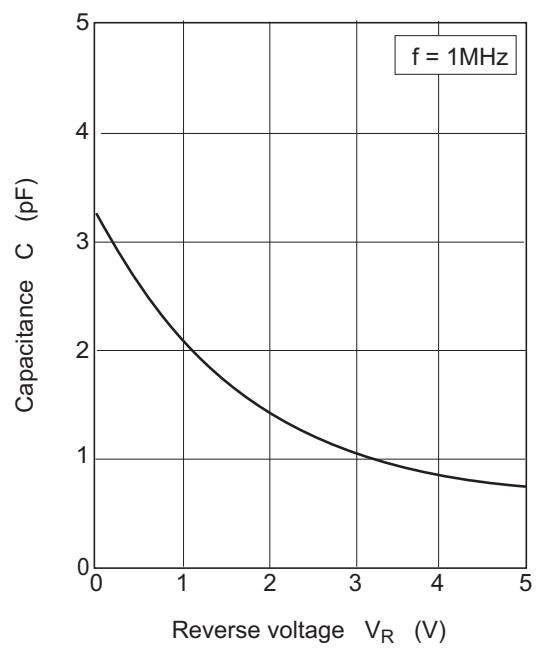


Fig.2 Capacitance vs. Reverse voltage

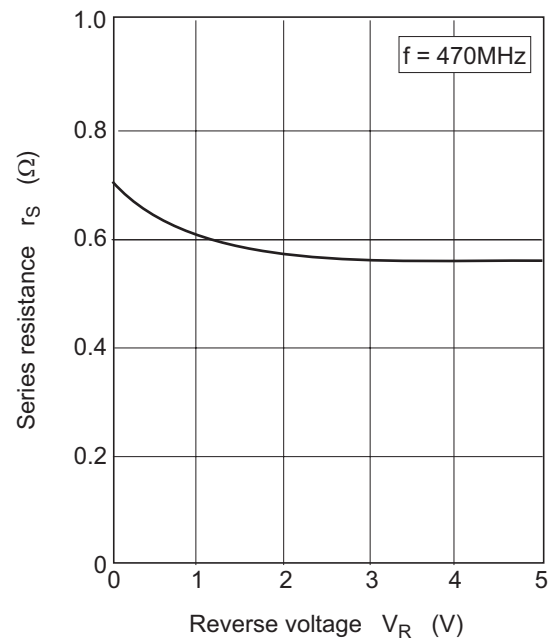
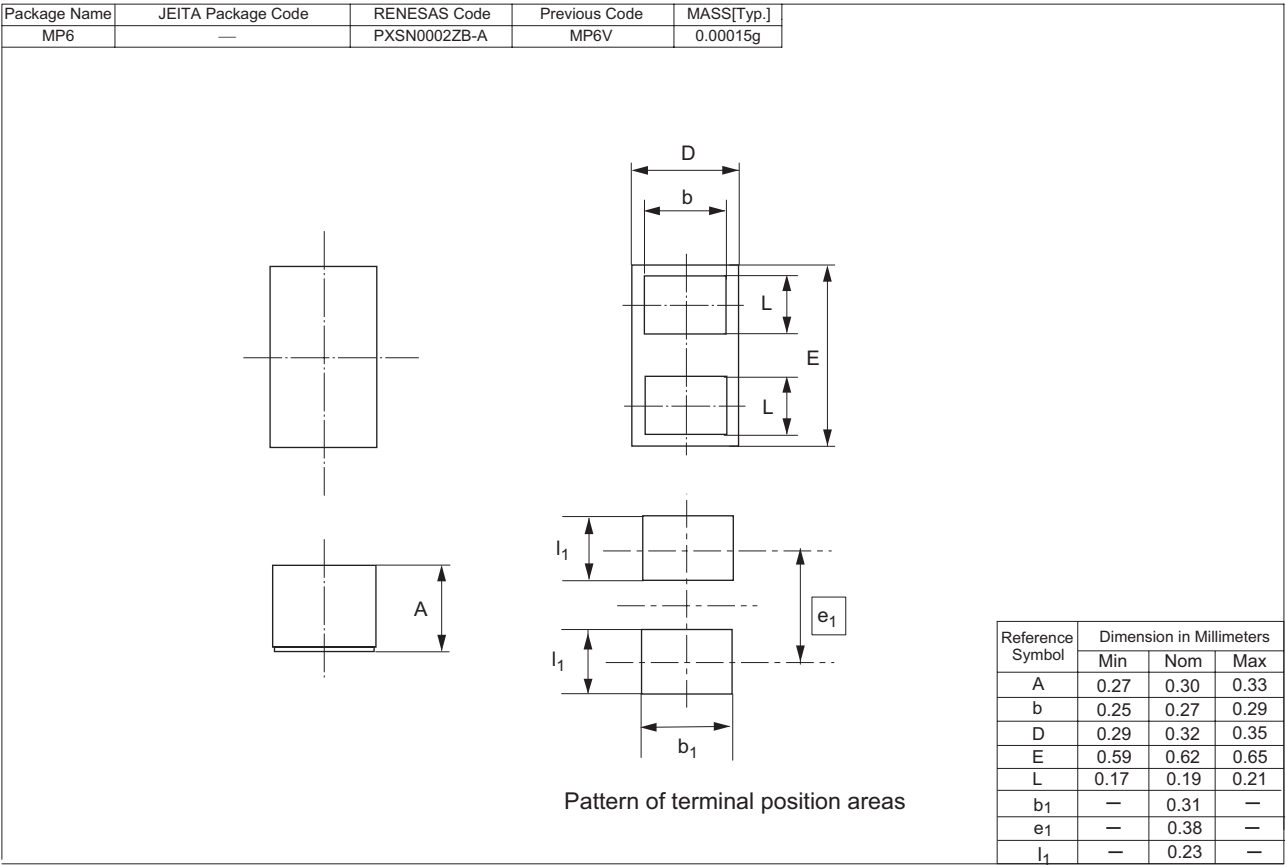


Fig.3 Series resistance vs. Reverse voltage

Package Dimensions



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