

RKP204KP

Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G1555-0100 Rev.1.00 Jun 28, 2007

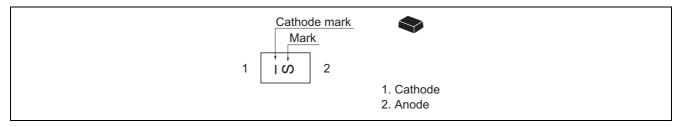
Features

- An optimal solution for antenna switching in mobile phones.
- Low capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf = $1.1 \Omega \text{ max}$)
- Low operation current.
- 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	
RKP204KP	S	MP6	PXSN0002ZB-A	

Pin Arrangement



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$	
ltem	Symbol	Value	Unit	
Reverse voltage	V _R	30	V	
Forward current	l _F	100	mA	
Power dissipation	Pd	100	mW	
Junction temperature	Тј	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Electrical Characteristics

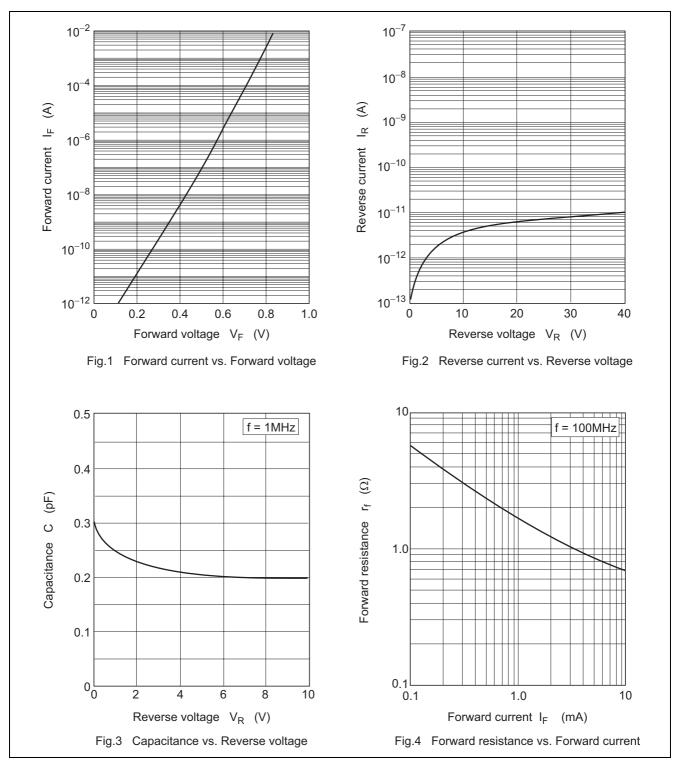
(Ta = 25°C)

ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V _F	—	—	1.0	V	I _F = 10 mA
Reverse current	I _R	—	—	100	nA	V _R = 30 V
Capacitance	С	—	—	0.35	pF	$V_{R} = 1 V, f = 1 MHz$
Forward resistance	r _f	_	—	1.1	Ω	I _F = 10 mA, f = 100 MHz
ESD-Capability *1	—	100	—	—	V	$C = 200 \text{ pF}, R = 0 \Omega$, Both forward
						and reverse direction 1 pulse.

Notes: 1. Failure criterion ; $I_R > 100 \ nA$ at V_R = 30 V

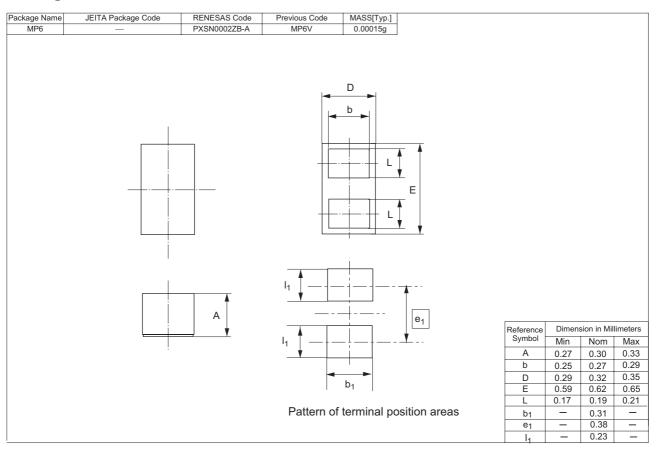
2. Please do not use the soldering iron due to avoid high stress to the MP6 package.

Main Characteristic



RENESAS

Package Dimensions



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RENESAS SALES OFFICES

Refer to "http://www.renesas.com/en/network" for the latest and detailed information.

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