

RKP202KN

Silicon Epitaxial Trench Pin Diode for Antenna Switching

REJ03G1312-0100 Rev.1.00 Dec 16, 2005

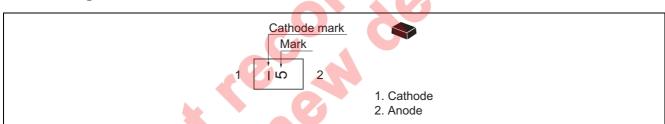
Features

- Adopting the trench structure improves low capacitance. (C = 0.43 pF max)
- Low forward resistance. (rf = $1.80 \Omega \text{ max}$)
- Low operation current.
- Ultra small leadless Package (0805type; the use of an undersurface electrode structure) for use in compact and products.

Ordering Information

Type No.	Laser Mark	Package Name	Package Code (Previous Code)
RKP202KN	5	MP8	PXSN0002ZA-A

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Reverse voltage	V _R	30	V
Forward current	I _F	100	mA
Power dissipation	Pd	100	mW
Junction temperature	Тј	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics

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

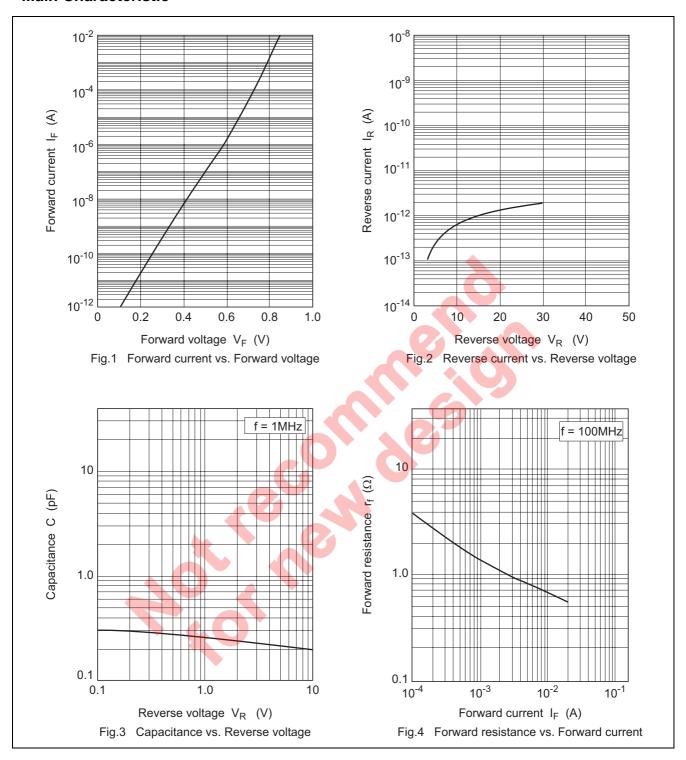
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	_	100	nA	V _R = 30 V
Forward voltage	V _F	_	_	0.90	V	I _F = 2 mA
Capacitance	С	_	_	0.43	pF	$V_R = 1 \text{ V, } f = 1 \text{ MHz}$
Forward resistance	r _f	_	_	1.80	Ω	I _F = 2 mA, f = 100 MHz
ESD-Capability *1	_	100	_	_	V	$C = 200 \text{ pF}, R = 0 \Omega$, Both forward
						and reverse direction 1 pulse.

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

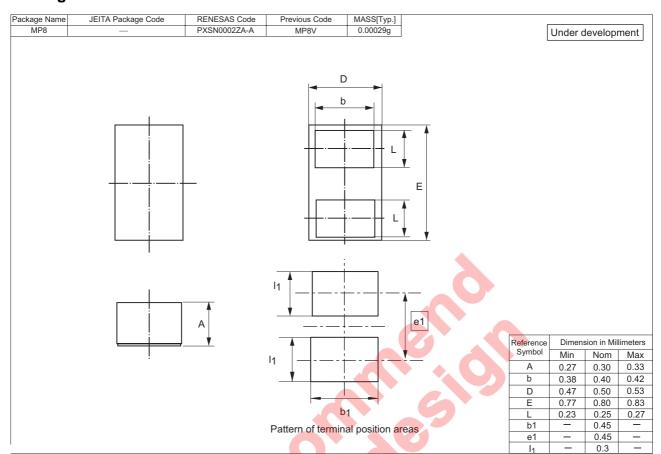
2. Please do not use the soldering iron due to avoid high stress to the MP8 package.



Main Characteristic



Package Dimensions





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