

RKP450KE

Ultra small Package Composite Pin Diode for Antenna Switching

REJ03G1664-0100 Rev.1.00 Apr 17, 2008

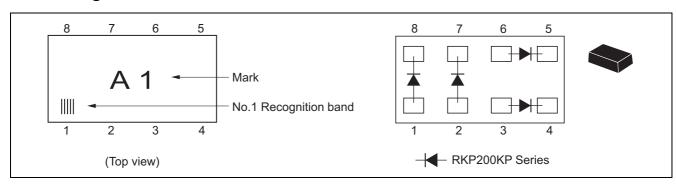
Features

- An optimal solution for antenna switching in mobile phones.
- Low capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf = $1.3 \Omega \text{ max}$)
- Halogen free, Environmental friendly Package include Conformity to RoHS Directive.
- Ultra small Package (1.63 mm × 0.67 mm Size leadless type) of diode array with four same kind of elements.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code
RKP450KE	A1	MP6-8	PXSN0008ZA-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* ¹	100	mW
Power dissipation	Pd* ²	200	mW
Junction temperature	Тј	125	°C
Storage temperature	Tstg	-55 to +125	°C

Notes: 1. Per one device.

2. Value at Package total.

Electrical Characteristics

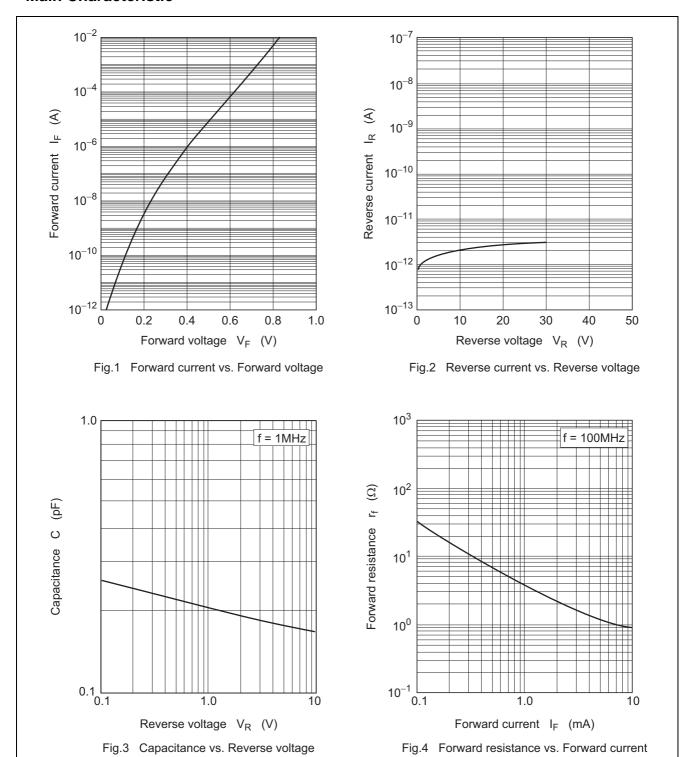
 $(Ta = 25^{\circ}C)$

Item	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	_	_	1.3	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.

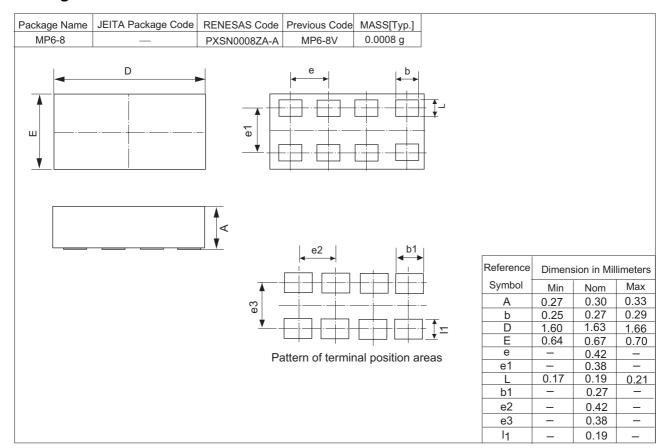
Notes: 1. Failure criterion ; $I_R > 100 \; \text{nA}$ at $V_R = 30 \; \text{V}$

2. Please do not use the soldering iron due to avoid high stress to the MP6-8 package.

Main Characteristic



Package Dimensions



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