

# **RKP453KE**

# Ultra small Package Composite Pin Diode for Antenna Switching

REJ03G1696-0100 Rev.1.00 Jun 05, 2008

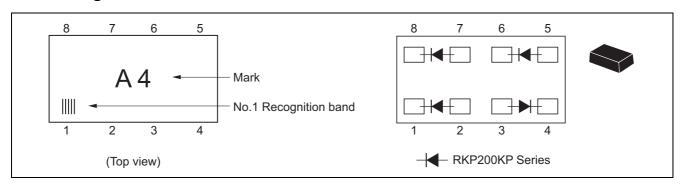
## **Features**

- 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
RKP453KE	A4	MP6-8	PXSN0008ZA-A

## **Pin Arrangement**



## **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	30	V
Forward current	I <sub>F</sub>	100	mA
Power dissipation	Pd *1	100	mW
Power dissipation	Pd * <sup>2</sup>	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**

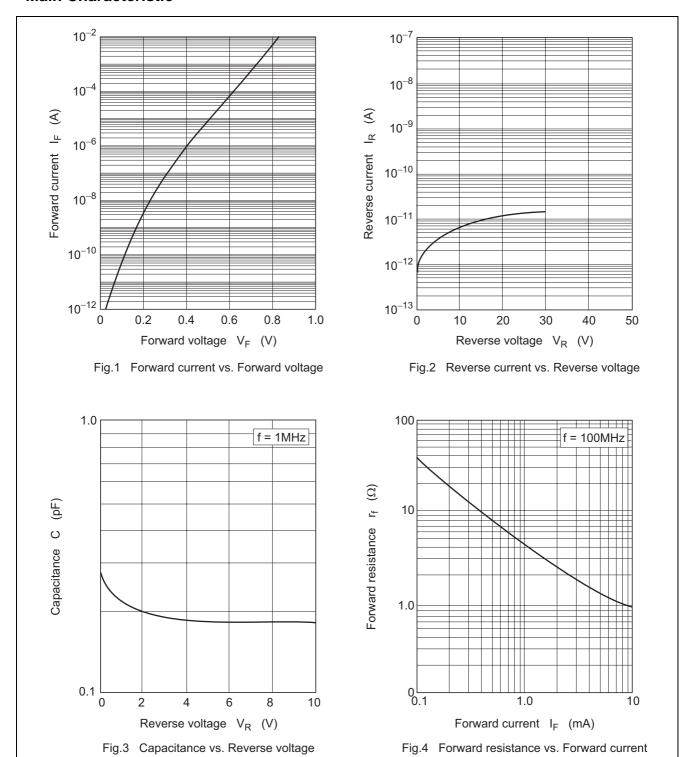
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V <sub>F</sub>	_	_	1.0	V	I <sub>F</sub> = 10 mA
Reverse current	I <sub>R</sub>	_	_	100	nA	V <sub>R</sub> = 30 V
Capacitance	С	_	_	0.35	pF	V <sub>R</sub> = 1 V, f = 1 MHz
Forward resistance	r <sub>f</sub>	_	_	1.3	Ω	I <sub>F</sub> = 10 mA, f = 100 MHz
ESD-Capability *1	_	100	_	_	V	$C = 200 \text{ pF}, R = 0 \Omega$ , Both forward
						and reverse direction 1 pulse.

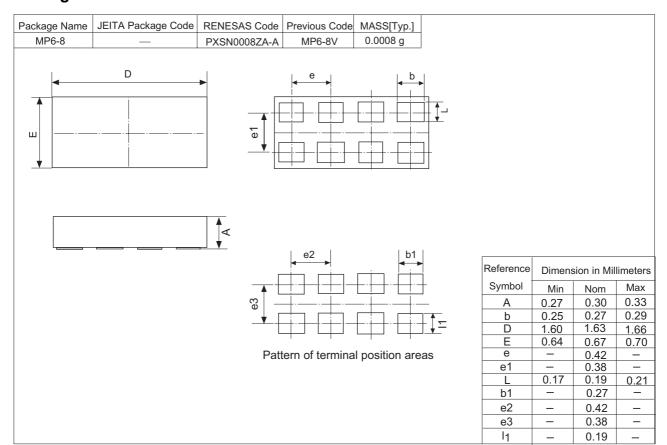
Notes: 1. Failure criterion ;  $I_R > 100 \; \text{nA}$  at  $V_R = 30 \; \text{V}$ 

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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April 1<sup>st</sup>, 2010 Renesas Electronics Corporation

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