

# RKP402KS

## Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G1346-0300 Rev.3.00 Mar 02, 2007

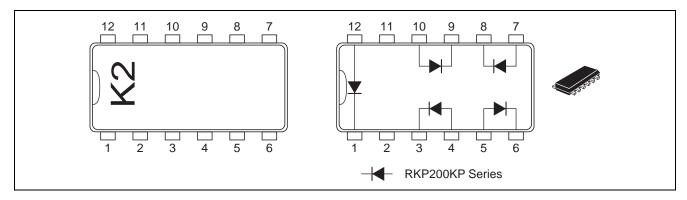
### **Features**

- An optimal solution for antenna switching in mobile phones.
- Low capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf =  $1.3 \Omega \text{ max}$ )
- Thin outline of diode array with five same kind of elements (MFP12) is suitable for surface mount design.

## **Ordering Information**

Part No.	Laser Mark	Package Name	Package Code	
RKP402KS	K2	MFP12	PUSF0012ZA-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 *	100	mW
Junction temperature	Tj	125	°C
Storage temperature	Tstg	−55 to +125	°C

Note: Per one device

## **Electrical Characteristics**

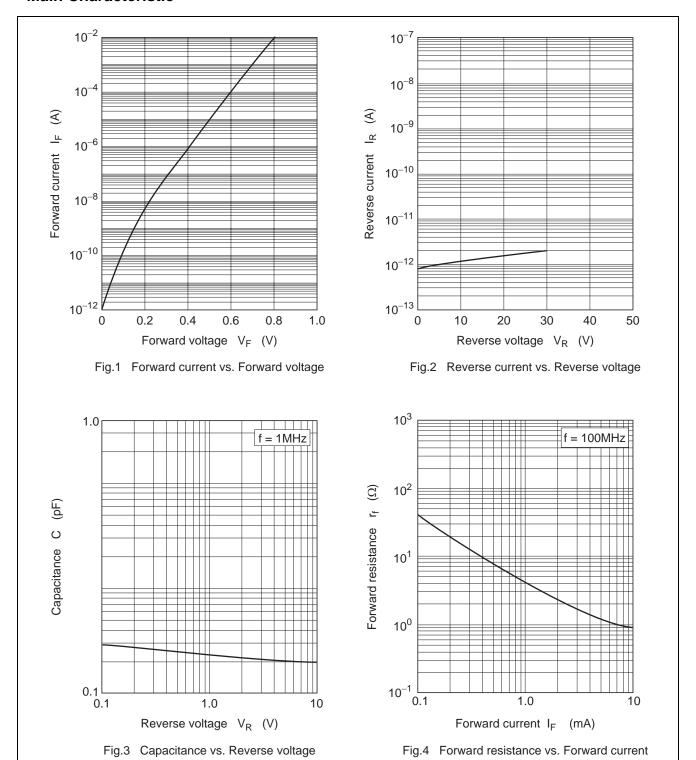
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R</sub>	_	_	100	nA	V <sub>R</sub> = 30 V
Forward voltage	V <sub>F</sub>	_	_	1.0	V	I <sub>F</sub> = 10 mA
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.

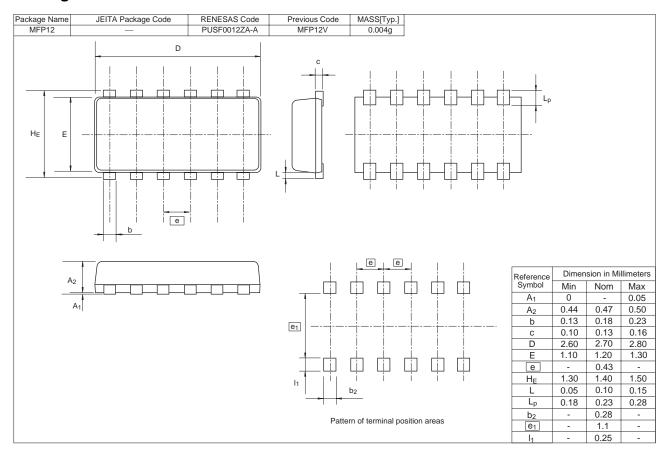
Notes: 1. Failure criterion ;  $I_R > 100$  nA at  $V_R = 30$  V

2. For MFP12 package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

## **Main Characteristic**



## **Package Dimensions**



### Renesas Technology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

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Renesas Technology America, Inc.

450 Holger Way, San Jose, CA 95134-1368, U.S.A Tel: <1> (408) 382-7500, Fax: <1> (408) 382-7501

Renesas Technology Europe Limited
Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K.
Tel: <44> (1628) 585-100, Fax: <44> (1628) 585-900

Renesas Technology (Shanghai) Co., Ltd.

Unit 204, 205, AZIACenter, No. 1233 Lujiazui Ring Rd, Pudong District, Shanghai, China 200120 Tel: <86> (21) 5877-1818, Fax: <86> (21) 6887-7898

Renesas Technology Hong Kong Ltd.
7th Floor, North Tower, World Finance Centre, Harbour City, 1 Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2730-6071

Renesas Technology Taiwan Co., Ltd. 10th Floor, No.99, Fushing North Road, Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 2713-2999

Renesas Technology Singapore Pte. Ltd.
1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632 Tel: <65> 6213-0200, Fax: <65> 6278-8001

Renesas Technology Korea Co., Ltd. Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea Tel: <82> (2) 796-3115, Fax: <82> (2) 796-2145

Renesas Technology Malaysia Sdn. Bhd
Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510

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