

RKP402KS

Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G1346-0300 Rev.3.00 Mar 02, 2007

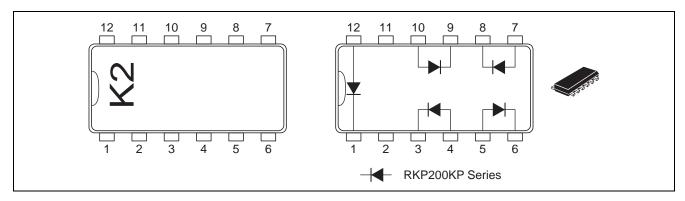
Features

- 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_R	30	V
Forward current	I _F	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

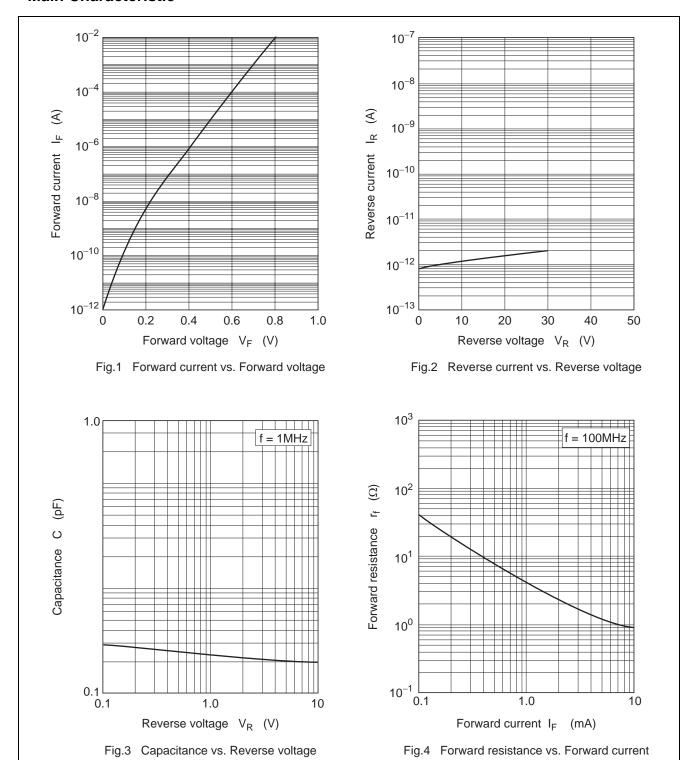
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	_	100	nA	V _R = 30 V
Forward voltage	V _F	_	_	1.0	V	I _F = 10 mA
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.

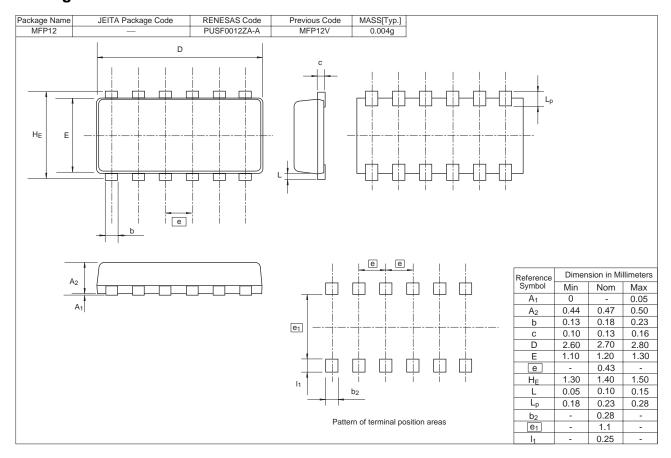
Notes: 1. Failure criterion ; $I_R > 100$ nA at $V_R = 30$ V

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



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