

RKP401KS

Composite Pin Diode for Antenna Switching

REJ03G1345-0200 Rev.2.00 Jul 03, 2006

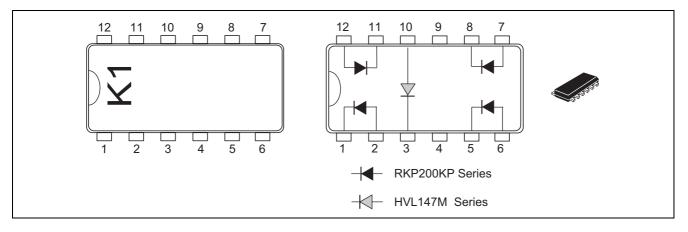
Features

- An optimal solution for antenna switching in mobile phones.
- Low capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf = 2.5 Ω max @I_F = 2 mA, f = 100 MHz)
- Thin outline of diode array with five different kind elements (MFP12) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Name	Package Code	
RKP401KS	K1	MFP12	PUSF0012ZA-A	

Pin Arrangement





Absolute Maximum Ratings

			(Ta = 25°C)
Item	Symbol	Value	Unit
Reverse voltage	V _R	30	V
Forward current	l _F	100	mA
Power dissipation	Pd *	100	mW
Junction temperature	Тј	125	°C
Storage temperature	Tstg	-55 to +125	°C

Note: Per one device

Electrical Characteristics (RKP200KP Series)

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

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 pF, R = 0 Ω , Both forward and reverse direction 1 pulse.

Electrical Characteristics (HVL147M Series)

(Ta = 25°C)

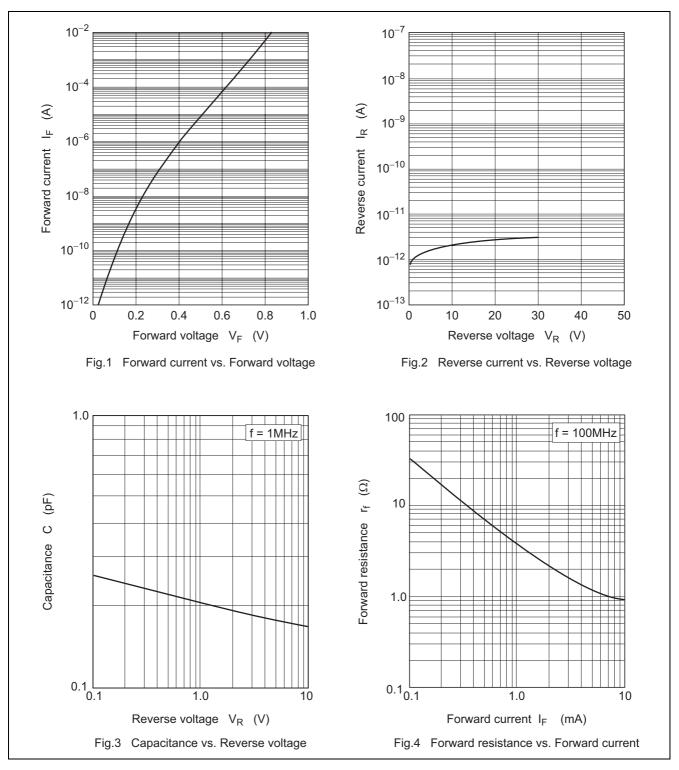
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R			100	nA	V _R = 30 V
Forward voltage	VF			1.0	V	I _F = 10 mA
Capacitance	С			0.31	pF	$V_R = 1 V$, f = 1 MHz
Forward resistance	r _f			2.5	Ω	I _F = 2 mA, f = 100 MHz
		—		1.5	Ω	I _F = 10 mA, f = 100 MHz
ESD-Capability *1	—	100	_	—	V	$C = 200 \text{ pF}, R = 0 \Omega$, 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.

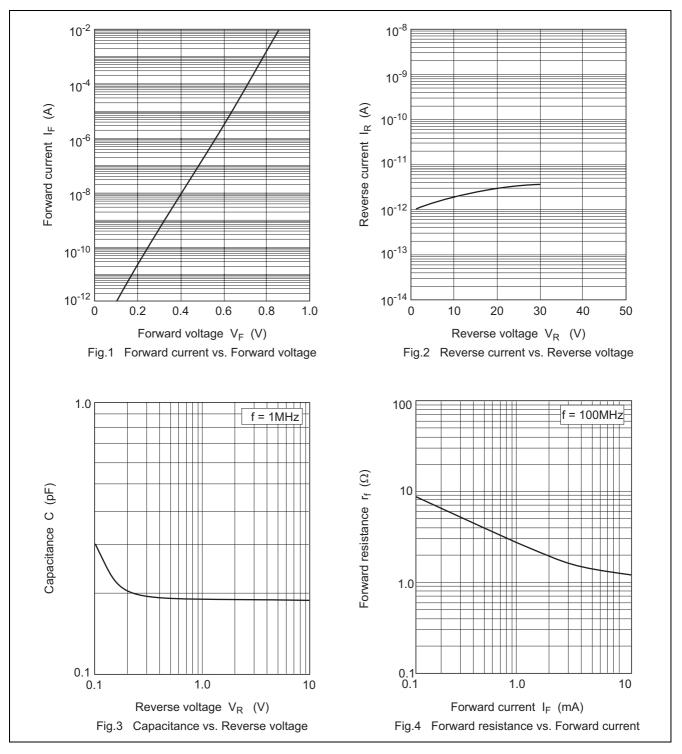


Main Characteristic (RKP200KP Series)

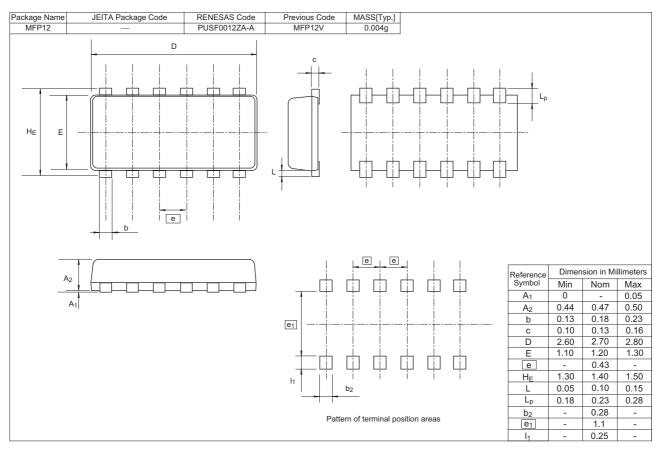








Package Dimensions





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