

RKP409KS

Composite Pin Diode for Antenna Switching

REJ03G1501-0200 Rev.2.00 Jun 08, 2007

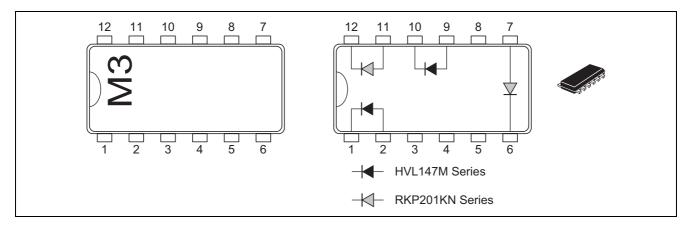
Features

- An optimal solution for antenna switching in mobile phones.
- Low capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf = 2.0Ω max @I_F = 2 mA, f = 100 MHz)
- Thin outline of diode array with four different kind of elements (MFP12) is suitable for surface mount design.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code	
RKP409KS	M3	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 (HVL147M 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	_	_	0.31	pF	$V_R = 1 V$, $f = 1 MHz$
Forward resistance	r _{f1}	_	_	2.5	Ω	I _F = 2 mA, f = 100 MHz
	r _{f2}	_	_	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.

Electrical Characteristics (RKP201KN Series)

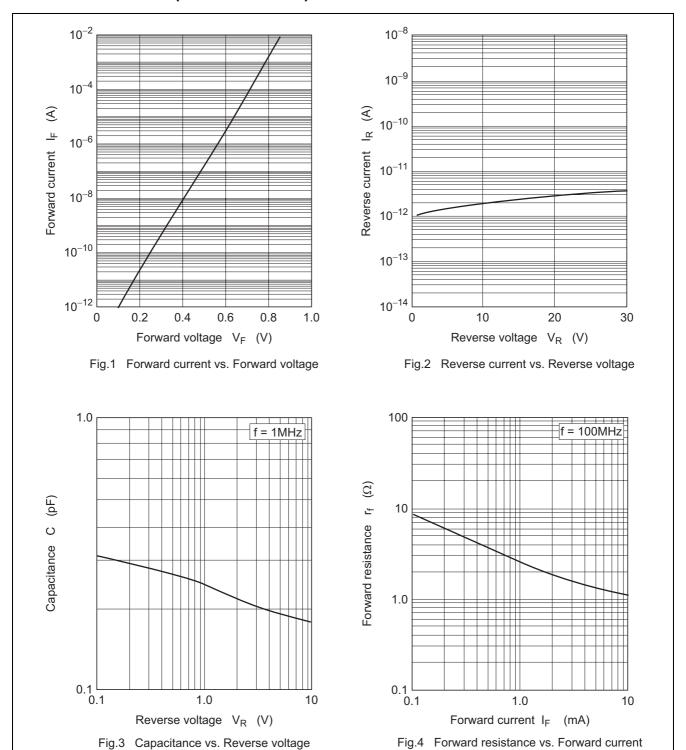
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	_	100	nA	V _R = 30 V
Forward voltage	V _F	_	_	0.9	V	$I_F = 2 \text{ mA}$
Capacitance	С	_	_	0.35	pF	V _R = 1 V, f = 1 MHz
Forward resistance	r _f	_	_	2.0	Ω	I _F = 2 mA, f = 100 MHz
ESD-Capability *1	_	100	_	_	V	$C = 200 \text{ pF}, R = 0 \Omega$, Both forward
						and reverse direction 1 pulse.

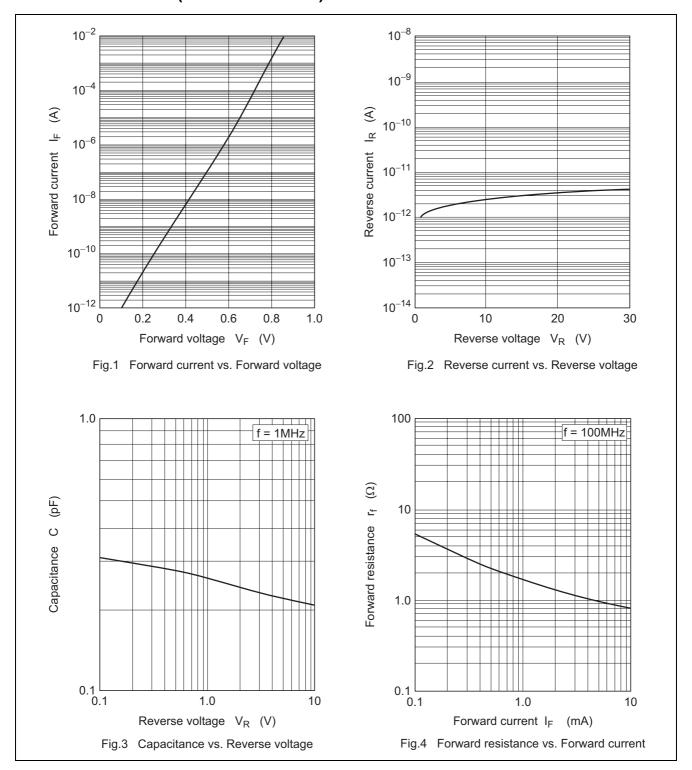
Notes: 1. Failure criterion ; $I_R > 100 \text{ nA}$ at $V_R = 30 \text{ V}$

2. 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.

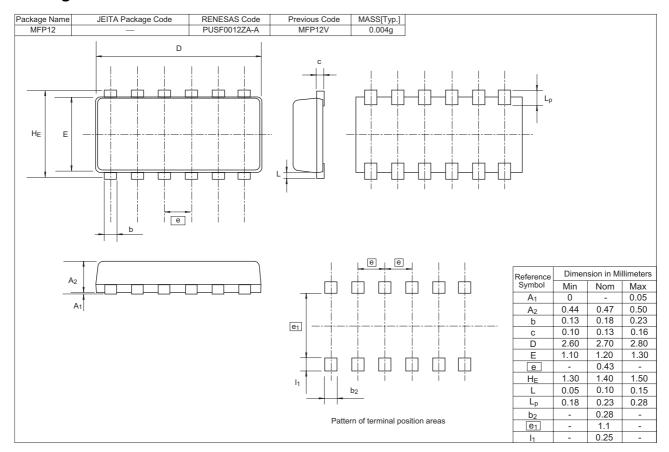
Main Characteristic (HVL147M Series)



Main Characteristic (RKP201KN Series)



Package Dimensions



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