

RKP405KS

Composite Pin Diode for Antenna Switching

REJ03G1543-0100 Rev.1.00 Apr 20, 2007

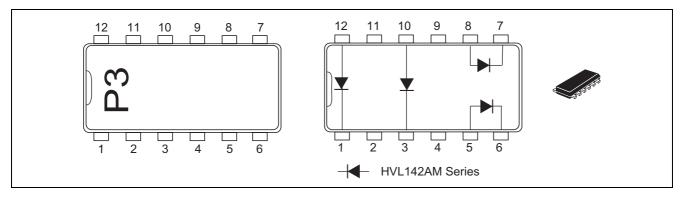
Features

- An optimal solution for antenna switching in mobile phones.
- Low capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf = 1.3 Ω max @I_F = 10 mA, f = 100 MHz)
- Thin outline of diode array with four same kind of elements (MFP12) is suitable for surface mount design.

Ordering Information

Part No.	Laser Mark	Package Name	Package Code	
RKP405KS	P3	MFP12	PUSF0012ZA-A	

Pin Arrangement



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$	
Item	Symbol	Value	Unit	
Reverse voltage	V _R	30	V	
Forward current	lF	100	mA	
Power dissipation	Pd *	100	mW	
Junction temperature	Тј	125	°C	
Storage temperature	Tstg	-55 to +125	٥C	

Note: Per one device

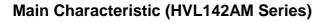
Electrical Characteristics (HVL142AM Series)

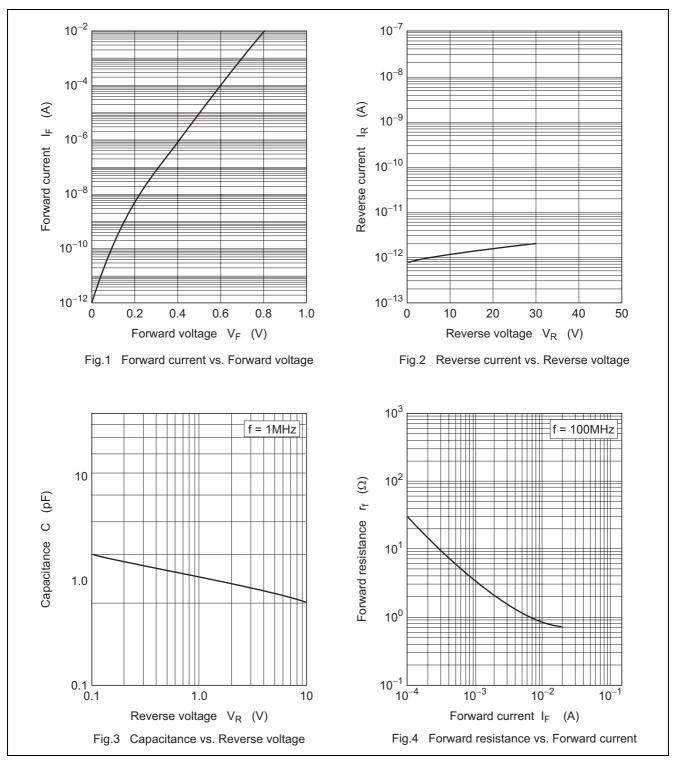
 $(Ta = 25^{\circ}C)$

ltem	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

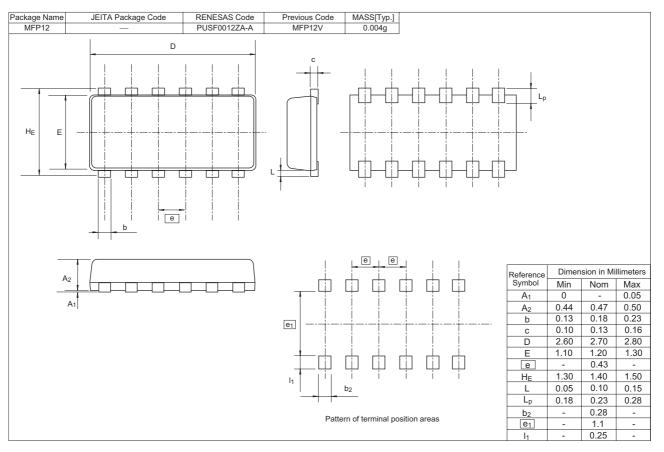
2. For MFP12 package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.





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Package Dimensions



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RENESAS SALES OFFICES

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