

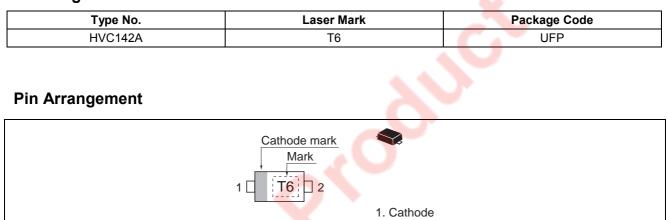
HVC142A Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G0422-0100 (Previous: ADE-208-1588) Rev.1.00 Nov 26, 2004

Features

- An optimal solution for antenna switching in mobile phones.
- Low capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf = $1.3 \Omega \max$)
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.

Ordering Information



2. Anode



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$	
Item	Symbol	Ratings	Unit	
Reverse voltage	V _R	30	V	
Forward current	IF	100	mA	
Power dissipation	Pd	150	mW	
Junction temperature	Тј	125	°C	
Storage temperature	Tstg	–55 to +125	٥C	

Electrical Characteristics

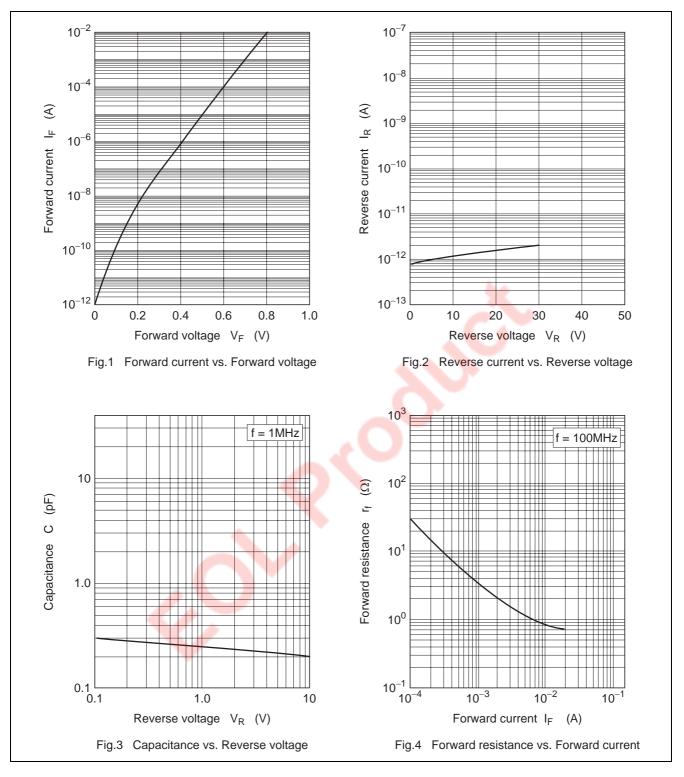
 $(Ta = 25^{\circ}C)$ ٦ Test Condition Unit

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.

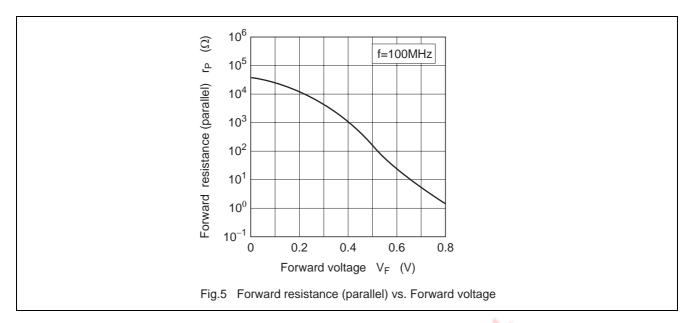
Note: 1. Failure criterion; $I_R > 100$ nA at V_R = 30 V



Main Characteristic



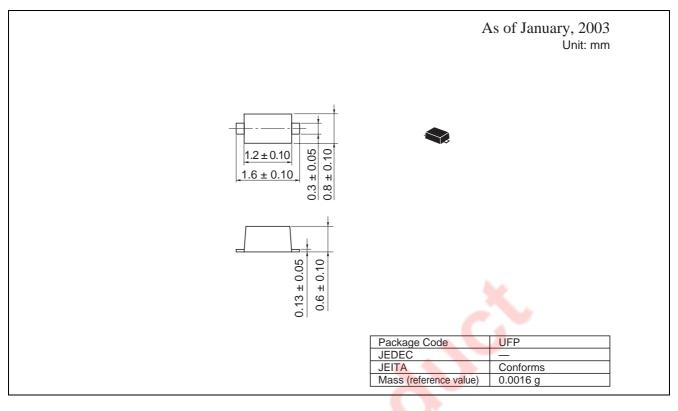




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Package Dimensions





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