Variable Capacitance Diode for VHF tuner

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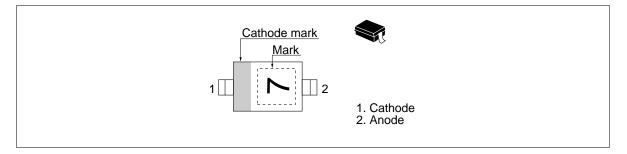
Features

- High capacitance ratio (n=12.0min)
- Low series resistance. (rs= 0.85Ω max)
- <u>U</u>ltra small <u>Resin Package</u> (URP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code
HVU307	7	URP

Outline





Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V _R	32	V
Junction temperature	Тј	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	$V_R = 30V$
	I _{R2}	_	_	100		$V_{R} = 30V, Ta = 60^{\circ}C$
Capacitance	C ₂	32.2	_	37.5	pF	$V_R = 2V, f = 1MHz$
	C ₂₅	2.57	—	3.00		$V_{R} = 25V, f = 1MHz$
Capacitance ratio	n	12.0	12.5	_	_	C ₂ /C ₂₅
Series resistance	r _s	—	—	0.85	Ω	V _R = 5V, f = 470MHz
Matching error	$\Delta C/C^{*1}$		_	2.0	%	$V_{R} = 2 \text{ to } 25V, f = 1 \text{ MHz}$

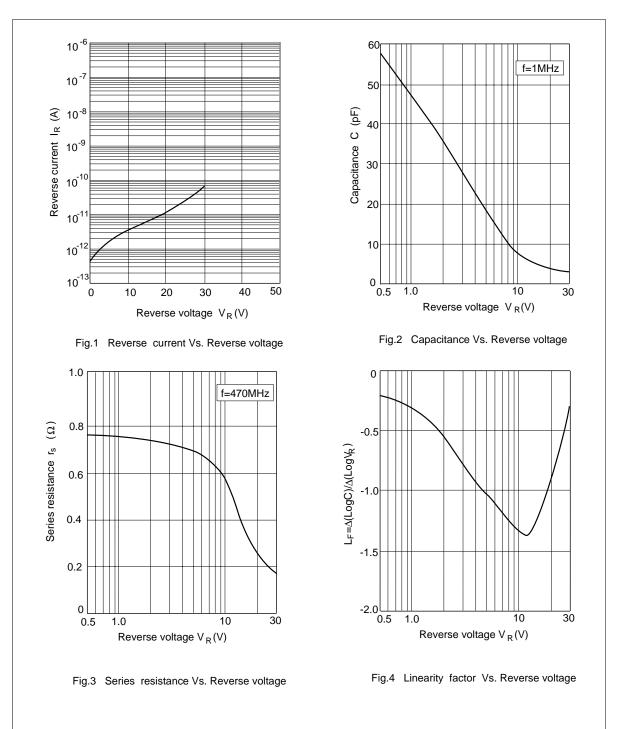
 C.C system (Continuous Connected taping system) enable to make any 10 pcs of ∆C/C continuous in a reel , expect extention to another group. Calculate Matching Error,

(Cmax-Cmin)

ΔC/C= _____ x 100 (%)

Cmin

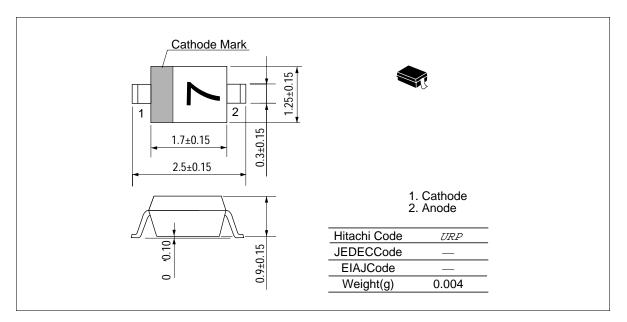
Main Characteristic



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Package Dimensions

Unit : mm



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