HVU202B

Variable Capacitance Diode for UHF/VHF tuner

HITACHI

ADE-208-610A (Z) Rev. 1 Dec.1998

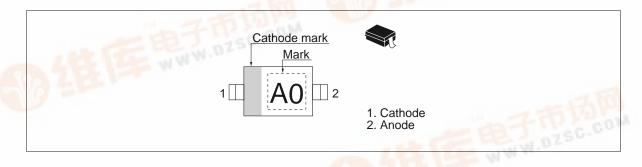
Features

- Low matching error. ($\Delta C/C = 1.8\% \text{ max}$)
- High capacitance ratio. (n = 6.3min)
- Low series resistance. (rs= 0.57Ω max)
- <u>Ultra small Resin Package (URP) is suitable for surface mount design.</u>

Ordering Information

Type No.	Laser Mark	Package Code			
HVU202B	A0	URP			
		D DZSC.C			
Outline					

Outline





HVU202B

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Peak reverse voltage	V_{RM}^{*1}	35	V
Reverse voltage	V_R	32	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Note 1. RL= $10K\Omega$

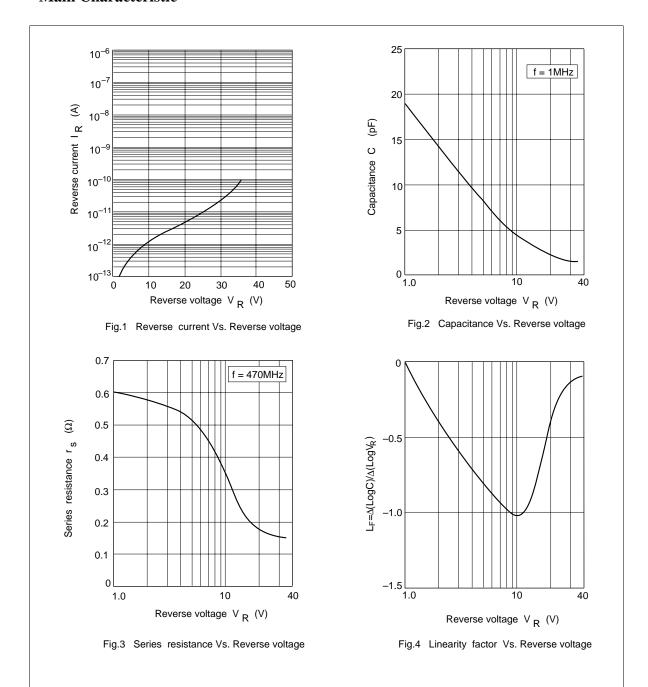
Electrical Characteristics ($Ta = 25^{\circ}C$)

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°C
Capacitance	C_2	14.15	_	15.75	pF	$V_R = 2V, f = 1MHz$
	C ₂₅	2.06	_	2.35		$V_R = 25V$, $f = 1MHz$
Capacitance ratio	n	6.30	_	_	_	C ₂ /C ₂₅
Series resistance	r _s	_	_	0.57	Ω	V _R = 5V, f = 470MHz
Matching error	ΔC/C*1	_	_	1.8	%	V _R = 2 to 25V, f = 1 MHz

Note 1. C.C system (Continuous Connected taping system) enable to make any 10 pcs of Δ C/C continuous in a reel , expect extention to another group. Calculate Matching Error,

$$\Delta \text{C/C=} \quad \frac{\text{(Cmax-Cmin)}}{\text{Cmin}} \quad \text{x 100 (\%)}$$

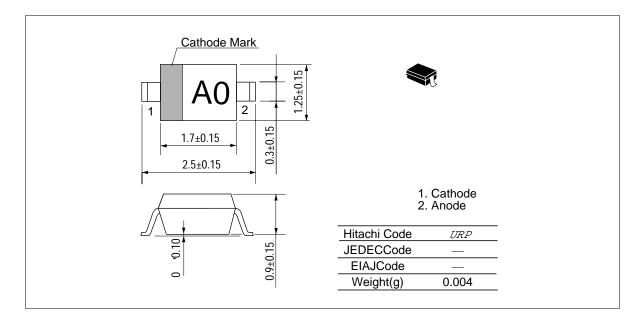
Main Characteristic



HVU202B

Package Dimensions

Unit: mm



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