HVU363B

Variable Capacitance Diode for TV tuner

HITACHI

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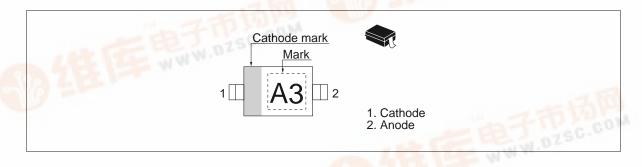
Features

- Low matching error. (C/C =2.0% max)
- High capacitance ratio. (n = 13.7min)
- Low series resistance. (rs=0.75 max)
- <u>Ultra small Resin Package (URP) is suitable for surface mount design.</u>

Ordering Information

Type No.	Laser Mark	Package Code			
HVU363B	A3	URP			
		THE WW.DZSC.C			
Outline					

Outline





HVU363B

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= $10K\Omega$

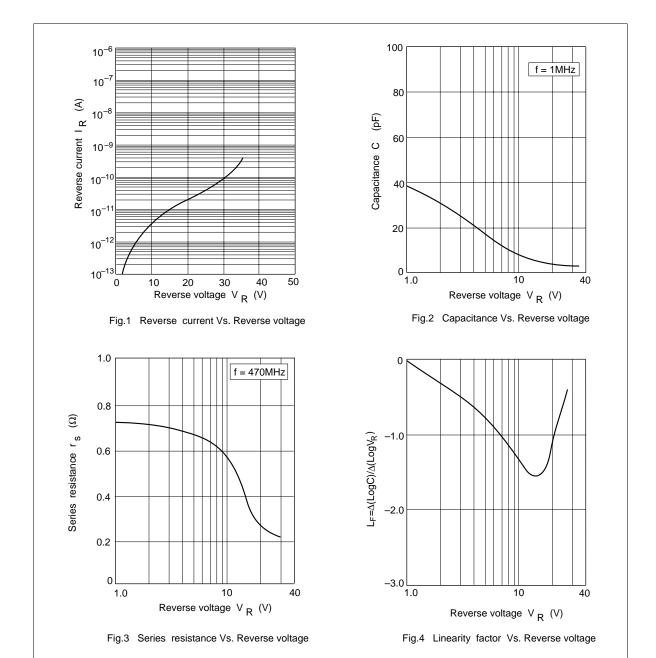
Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 32V
	I _{R2}	_	_	100		V _R = 32V, Ta= 60°C
Capacitance	C ₁	36.0	_	42.0	pF	V _R = 1V, f = 1MHz
	C ₂₈	2.36	_	2.75		$V_R = 28V, f = 1MHz$
Capacitance ratio	n	13.7	_	_	_	C ₁ /C ₂₈
Series resistance	r _s	_	_	0.75	Ω	V _R = 5V, f = 470MHz
Matching error	ΔC/C*1	_	_	2.0	%	V _R = 1~28V, 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,

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

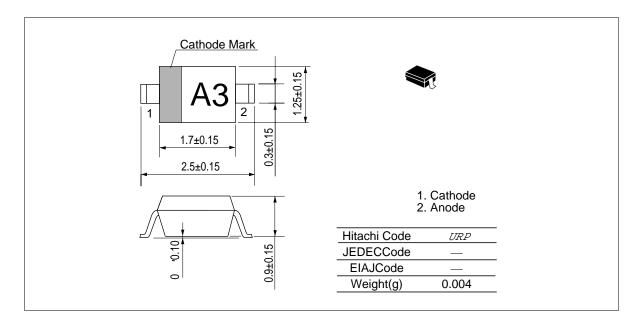
Main Characteristic



HVU363B

Package Dimensions

Unit: mm



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