Variable Capacitance Diode for VCO

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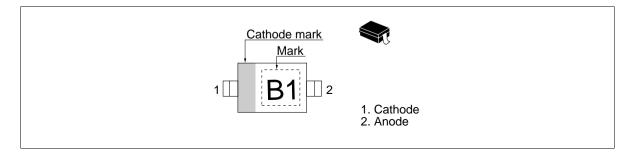
Features

- High capacitance ratio. (n =2.20 min)
- Low series resistance. (rs= 0.6Ω max).
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code
HVU355B	B1	URP

Outline





Absolute Maximum Ratings (Ta = 25° C)

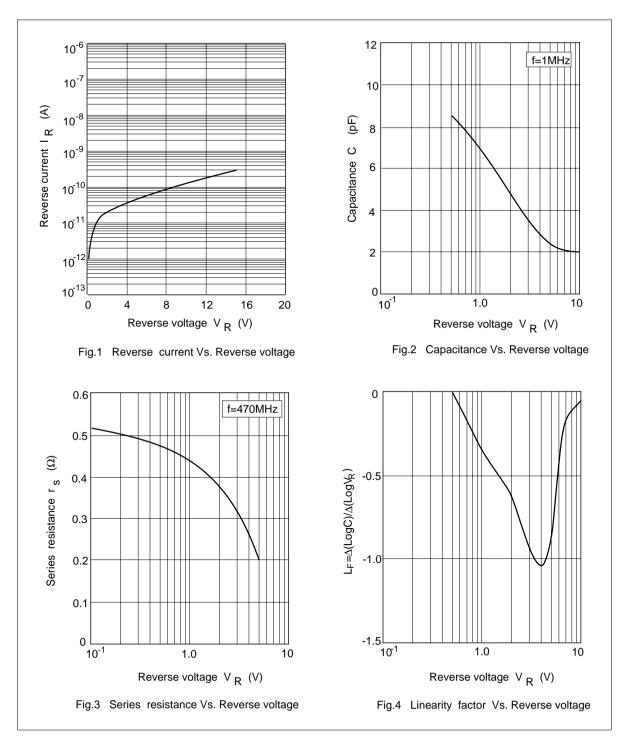
Item	Symbol	Value	Unit
Reverse voltage	V _R	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

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

ltem	Symbol	Min	Тур	Мах	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	$V_{R} = 15V$
	I _{R2}	—	—	100		V _R = 15V, Ta = 60 °C
Capacitance	C ₁	6.40	—	7.20	pF	$V_R = 1V$, f = 1 MHz
	C ₄	2.55	—	2.95		$V_{R} = 4V, f = 1 MHz$
Capacitance ratio	n	2.20	—		—	C ₁ / C ₄
Series resistance	r _s			0.6	Ω	V _R = 1V, f = 470 MHz

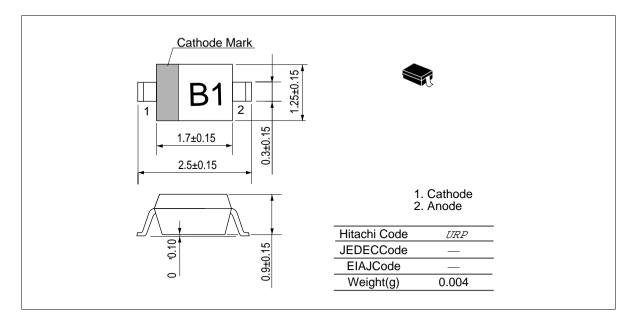
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Main Characteristic



Package Dimensions

Unit : mm



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