HVL358B

Variable Capacitance Diode for VCO

HITACHI

ADE-208-1520 (Z)

Rev.0 Jul. 2002

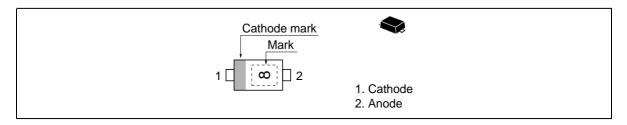
Features

- High capacitance ratio. (n = 2.20 min)
- Low series resistance. (rs = $0.4 \Omega \text{ max}$)
- Good C-V linearity.
- Extremely small Flat Package (EFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVL358B	8	EFP

Pin Arrangement





HVL358B

Absolute Maximum Ratings

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

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

Electrical Characteristics

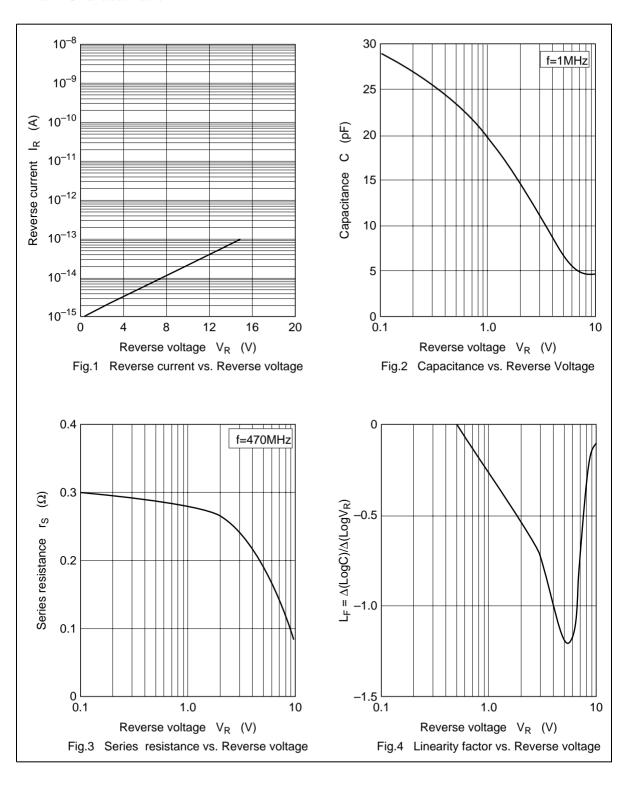
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	μΑ	V _R = 15 V
	I _{R2}	_	_	100	_	V _R = 15 V
Capacitance	C ₁	19.5	_	21.0	pF	$V_R = 1 \text{ V, f} = 1 \text{ MHz}$
	C ₄	8.00	_	9.30	_	V _R = 4 V, f = 1 MHz
Capacitance ratio	n	2.20	_	_	_	C ₁ / C ₄
Series resistance	r _s			0.4	Ω	V _R = 1 V, f = 470 MHz

Notes: 1. Please do not use the soldering iron due to avoid high stress to the EFP package.

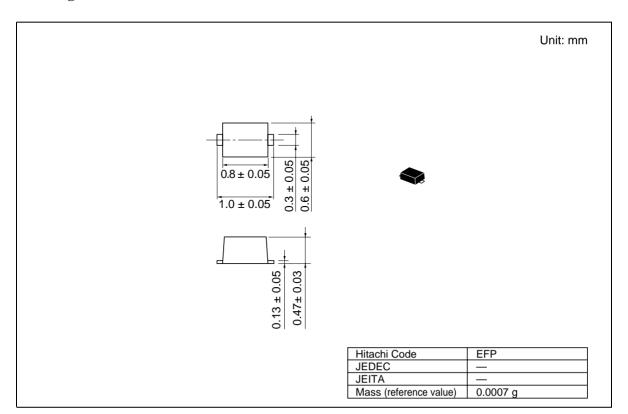
2. The material of lead is exposed for cutting plane. Therefor, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

Main Characteristic



HVL358B

Package Dimensions



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