RENESAS

HVL385B

Variable Capacitance Diode for VCO

REJ03G0033-0100Z Rev.1.00 Jun.12.2003

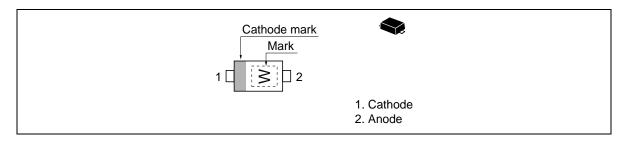
Features

- High capacitance ratio. (n = 2.43 min)
- Low series resistance. (rs = 0.75Ω max)
- Extremely small Flat Package (EFP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code	
HVL385B	W	EFP	

Pin Arrangement



Absolute Maximum Ratings

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

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

Electrical Characteristics

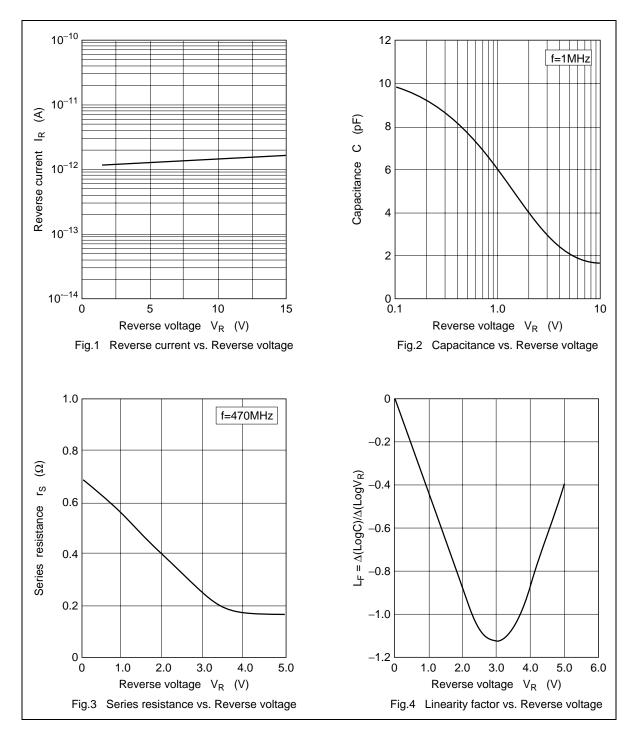
 $(Ta = 25^{\circ}C)$

ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}		_	10	nA	$V_R = 10 V$
	I _{R2}			100		V _R = 10 V, Ta = 60°C
Capacitance	C _{0.5}	7.20	_	7.70	pF	$V_{R} = 0.5 V, f = 1 MHz$
	C _{2.5}	2.70	_	3.20		V _R = 2.5 V, f = 1 MHz
Capacitance ratio	n	2.43		2.57		C _{0.5} / C _{2.5}
Series resistance	r _s			0.75	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.

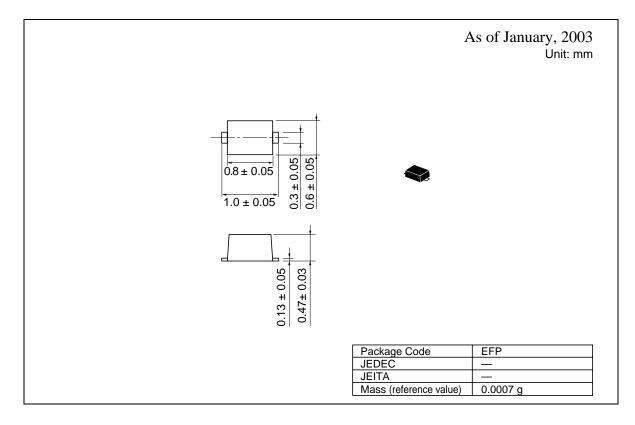
2. The material of lead is exposed for cutting plane. Therefore, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

Main Characteristic



HVL385B

Package Dimensions



Renesas Technology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

Keep safety first in your circuit designs!

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