

# HVL399CM

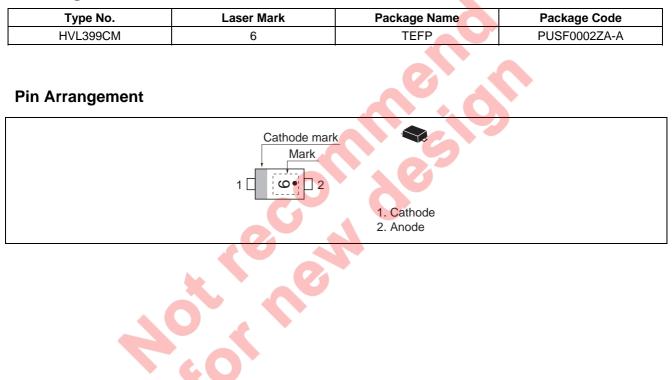
Variable Capacitance Diode for VCO

REJ03G0230-0200 Rev.2.00 Mar 21, 2006

## Features

- High capacitance ratio. (n = 2.30 to 2.46)
- Low series resistance. (rs =  $0.4 \Omega \text{ max}$ )
- Thin Extremely small Flat Lead Package (TEFP) is suitable for surface mount design.

### **Ordering Information**





## **Absolute Maximum Ratings**

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	10	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	۵°

## **Electrical Characteristics**

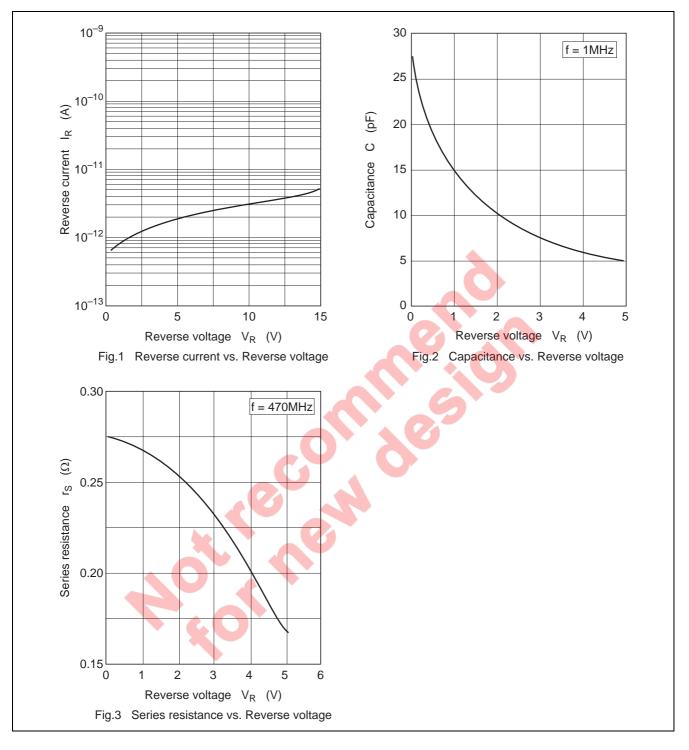
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	_	_	10	nA	V <sub>R</sub> = 10 V
	I <sub>R2</sub>	_	_	50		V <sub>R</sub> = 10 V, Ta = 60°C
Capacitance	C <sub>0.5</sub>	18.5		20.0	pF	$V_{R} = 0.5V, f = 1 MHz$
	C <sub>2.5</sub>	7.30	_	8.60		V <sub>R</sub> = 2.5 V, f = 1 MHz
Capacitance ratio	n	2.30		2.46	_	C <sub>0.5</sub> / C <sub>2.5</sub>
Series resistance	r <sub>s</sub>	_		0.40	Ω	V <sub>R</sub> = 1 V, f = 470 MHz

Note: For TEFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

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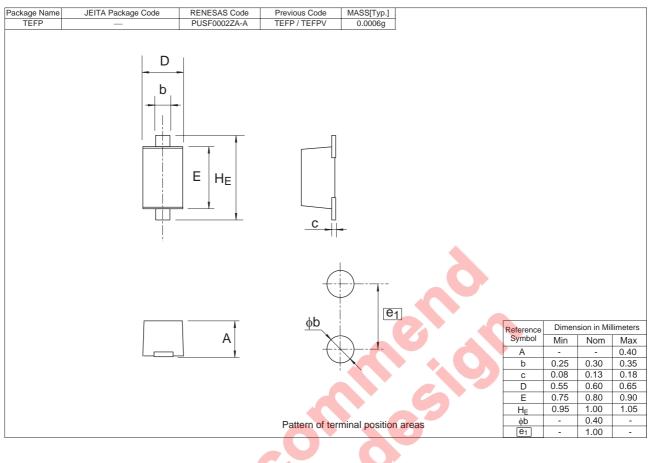


## Main Characteristic





## **Package Dimensions**





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