RENESAS

HVL397CM

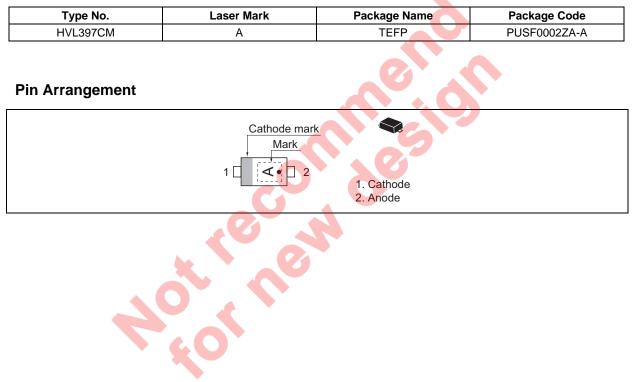
Variable Capacitance Diode for VCO

REJ03G0014-0200 Rev.2.00 Mar 16, 2006

Features

- High capacitance ratio. (n = 2.9 min)
- Good C-V linearity
- Thin Extremely small Flat Lead Package (TEFP) is suitable for surface mount design.

Ordering Information





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

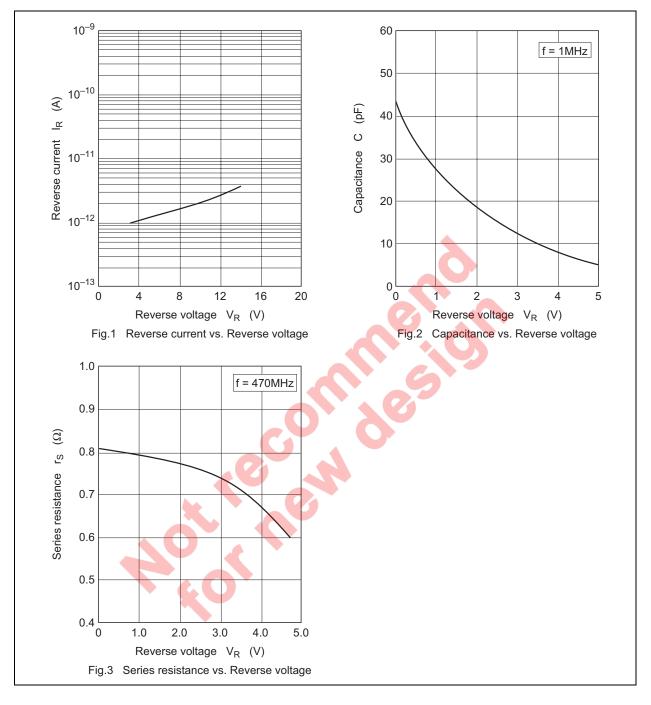
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	—	10	nA	V _R = 10 V
	I _{R2}	_	_	50		V _R = 10 V, Ta = 60°C
Capacitance	C ₁	27.0	_	28.5	pF	$V_{R} = 1 V, f = 1 MHz$
	C ₂	18.0	_	20.0		$V_R = 2 V, f = 1 MHz$
	C ₄	6.80	_	8.50		$V_R = 4 V$, f = 1 MHz
Capacitance ratio	n ₁	1.3	—	—		C ₁ / C ₂
	n ₂	2.9	_			C ₁ / C ₄
Series resistance	r _S	_	_	1.2	Ω	$V_{R} = 1 V, f = 470 MHz$

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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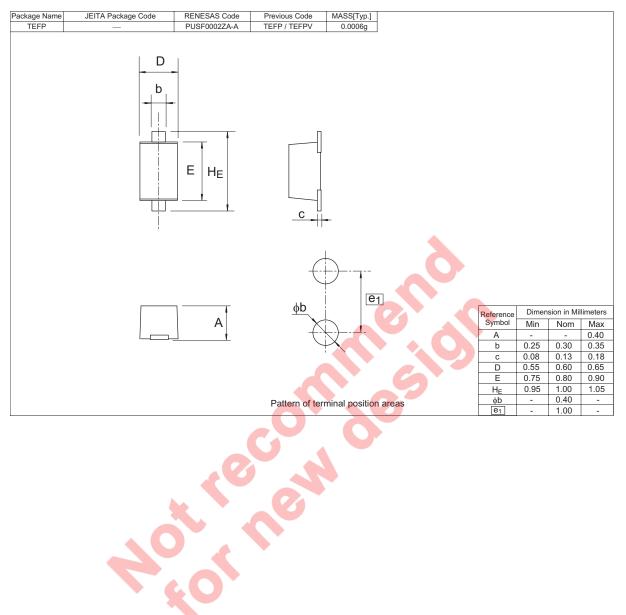


Main Characteristic





Package Dimensions





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