

HVL388CM

Variable Capacitance Diode for VCO

REJ03G0229-0200

Rev.2.00

Mar 15, 2006

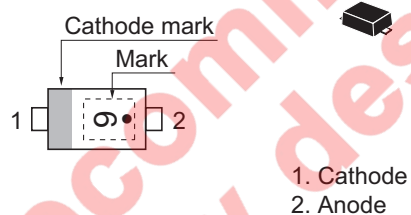
Features

- High capacitance ratio. ($n = 1.880$ min)
- Low series resistance. ($r_s = 0.75 \Omega$ max)
- Thin Extremely small Flat Lead Package (TEFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Name	Package Code
HVL388CM	9	TEFP	PUSF0002ZA-A

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_{R1}	—	—	10	nA	$V_R = 15\text{ V}$
	I_{R2}	—	—	50		$V_R = 15\text{ V}, T_a = 60^\circ\text{C}$
Capacitance	C_1	3.162	—	3.465	pF	$V_R = 1\text{ V}, f = 1\text{ MHz}$
	C_3	1.570	—	1.720		$V_R = 3\text{ V}, f = 1\text{ MHz}$
Capacitance ratio	n	1.880	—	2.150	—	C_1 / C_3
Series resistance	r_s	—	—	0.75	Ω	$V_R = 1\text{ V}, f = 470\text{ MHz}$

Note: For TEPF 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.

Main Characteristic

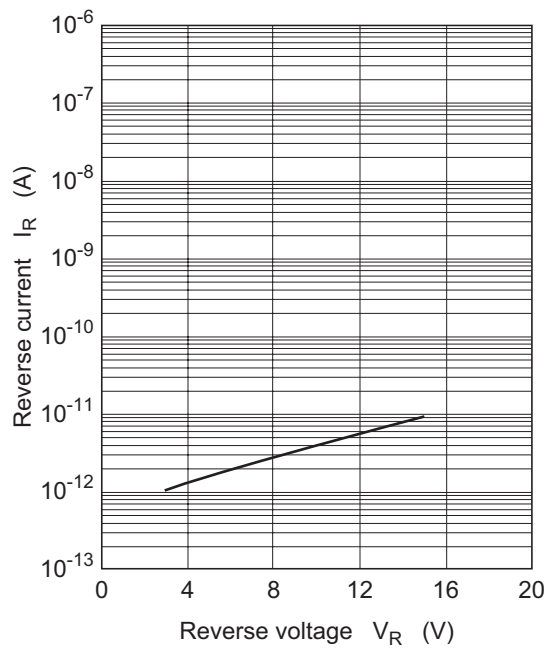


Fig.1 Reverse current vs. Reverse voltage

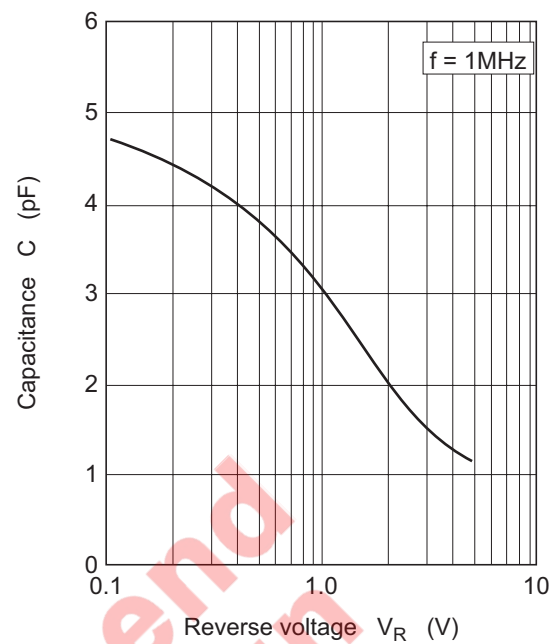


Fig.2 Capacitance vs. Reverse voltage

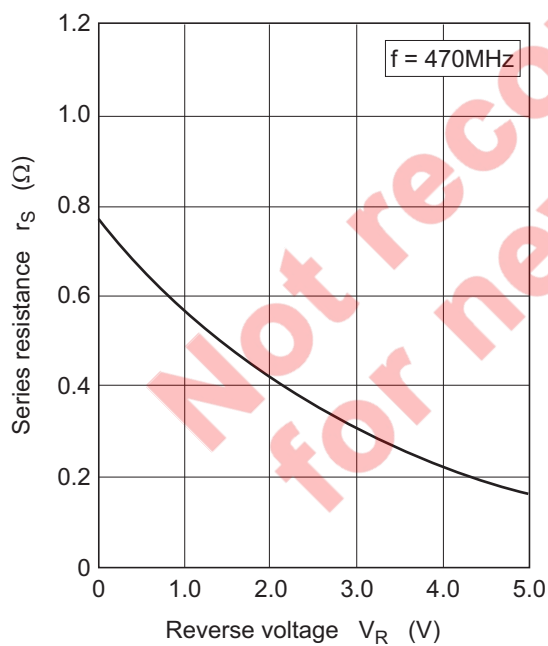
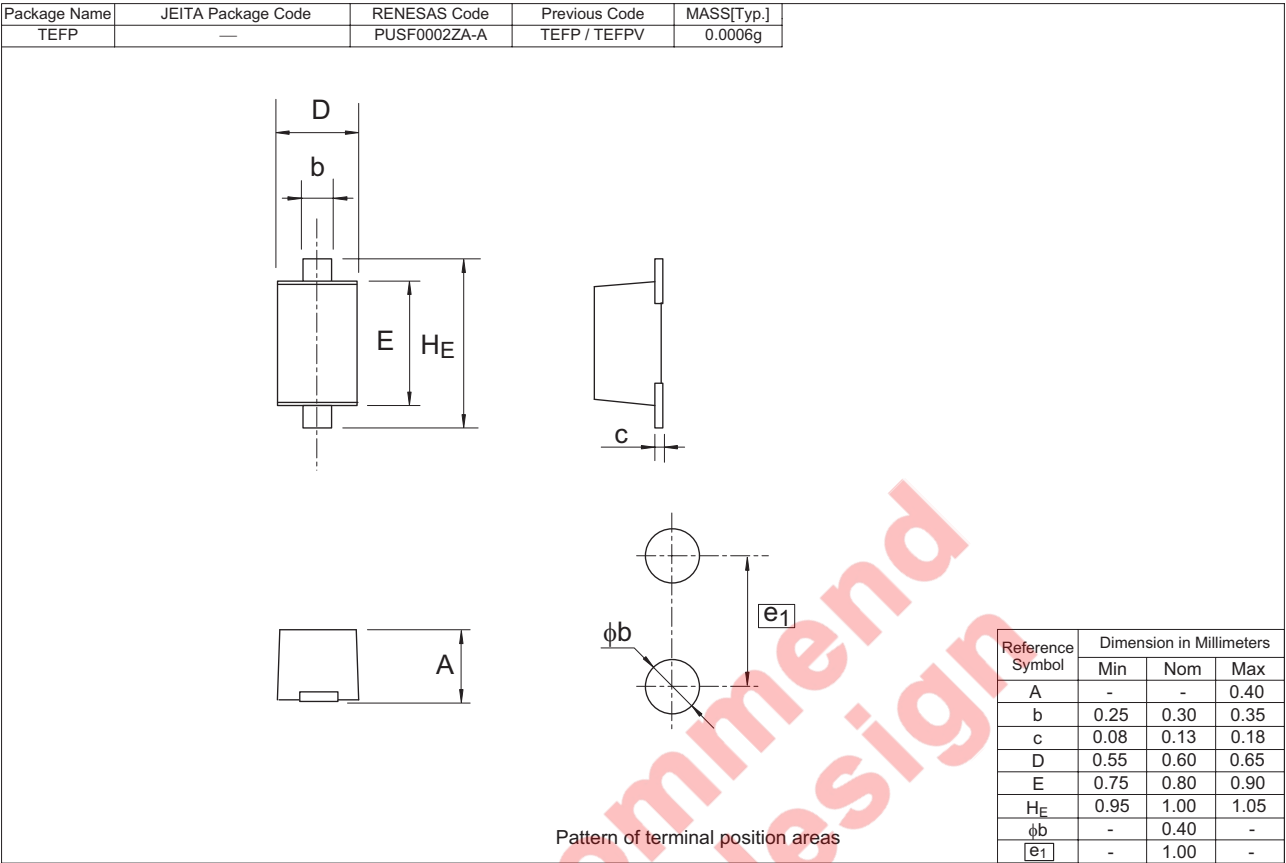


Fig.3 Series resistance vs. Reverse voltage

Package Dimensions



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