

HVL358CM

Variable Capacitance Diode for VCO

REJ03G0038-0100Z

Rev.1.00

May.14.2003

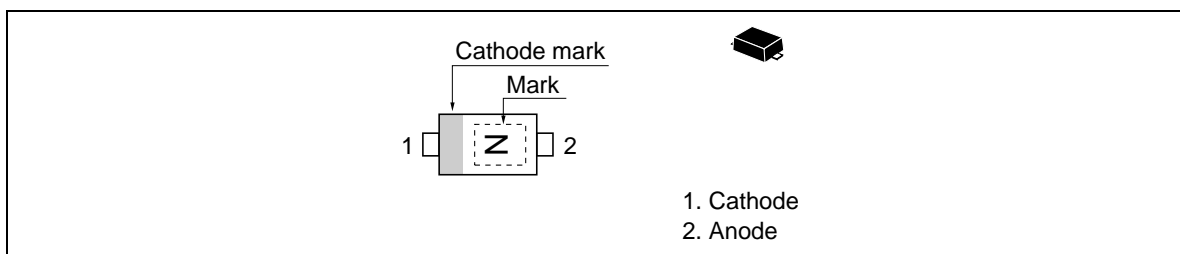
Features

- High capacitance ratio. ($n = 2.2 \text{ min}$)
- Low series resistance. ($r_s = 0.4 \Omega \text{ max}$)
- Good C-V linearity.
- Thin Extremely small Flat Package (TEFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVL358CM	N	TEFP

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

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

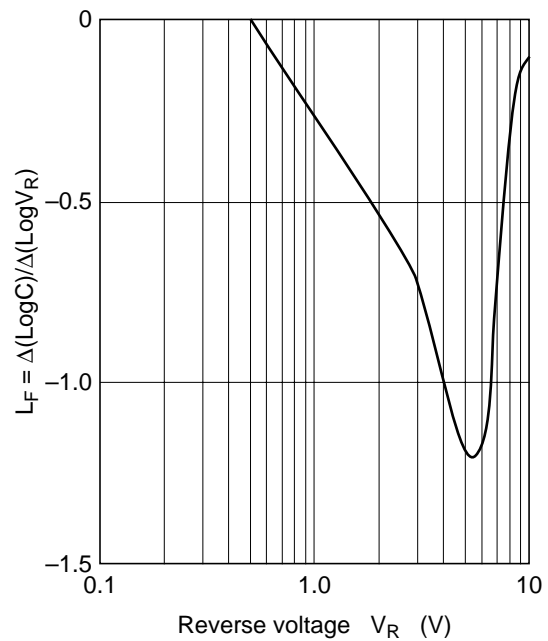
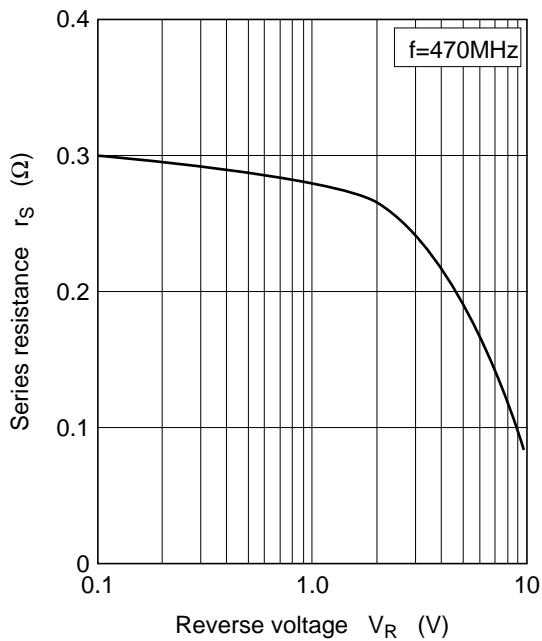
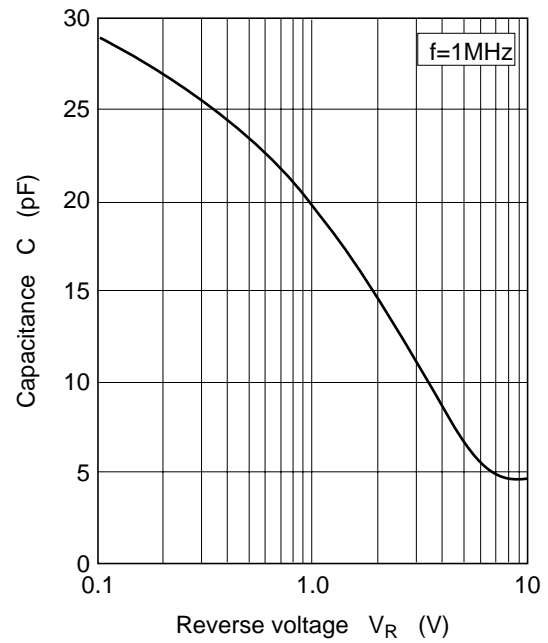
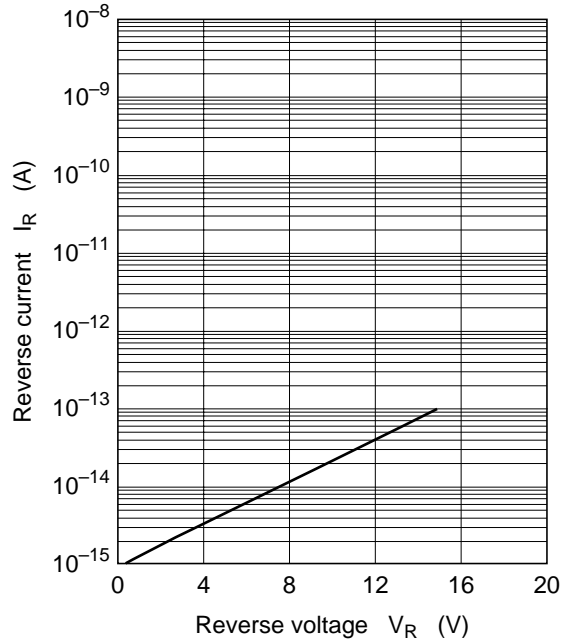
Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_{R1}	—	—	10	nA	$V_R = 15\text{ V}$
	I_{R2}	—	—	100		$V_R = 15\text{ V}$, Ta = 60°C
Capacitance	C_1	19.5	—	21.0	pF	$V_R = 1\text{ V}$, f = 1 MHz
	C_4	8.0	—	9.3		$V_R = 4\text{ V}$, f = 1 MHz
Capacitance ratio	n	2.2	—	—	—	C_1 / C_4
Series resistance	r_s	—	—	0.4	Ω	$V_R = 1\text{ V}$, f = 470 MHz

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

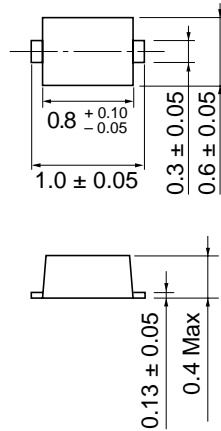
Main Characteristic



Package Dimensions

As of January, 2003

Unit: mm



Package Code	TEFP
JEDEC	—
JEITA	—
Mass (reference value)	0.0006 g

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

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