

HVL385C

Variable Capacitance Diode for VCO

REJ03G0225-0200 Rev.2.00 Mar 03, 2006

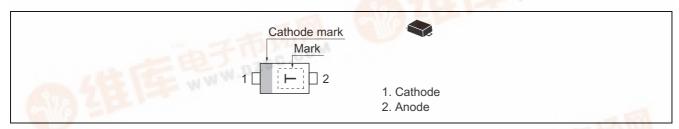
Features

- High capacitance ratio. (n = 2.43 min)
- Low series resistance. (rs = $0.75 \Omega \text{ max}$)
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Name	Package Code	
HVL385C	Т	EFP	PXSF0002ZA-A	

Pin Arrangement





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}	_	_	100		V _R = 10 V, Ta = 60°C
Capacitance	C _{0.5}	7.30	_	7.70	pF	V _R = 0.5 V, f = 1 MHz
	C _{2.5}	2.90	_	3.18		$V_R = 2.5 \text{ V}, f = 1 \text{ MHz}$
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

Note: For EFP 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

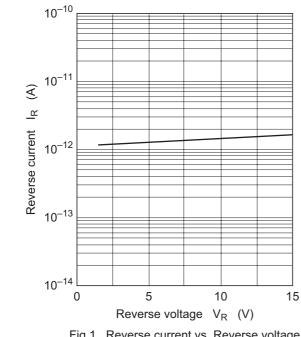
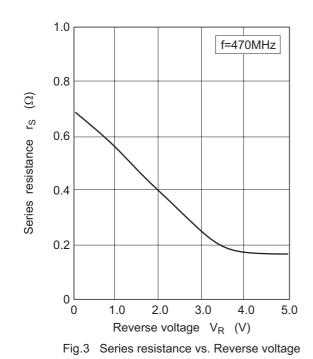


Fig.1 Reverse current vs. Reverse voltage



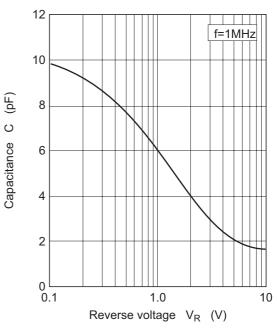
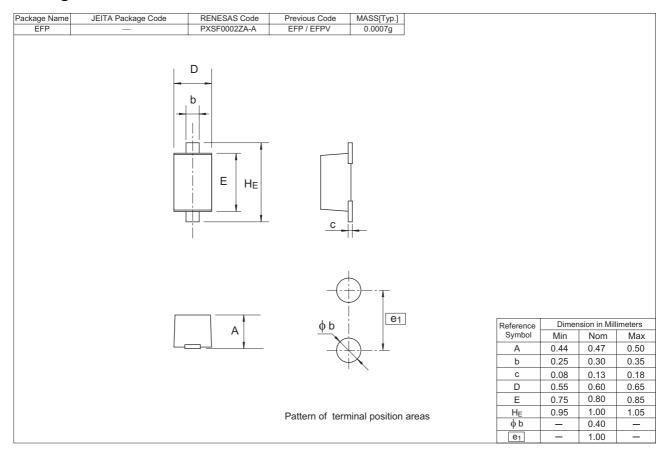


Fig.2 Capacitance vs. Reverse voltage

Package Dimensions



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