

HVD326C

Variable Capacitance Diode for UHF/VHF tuner

REJ03G0380-0100Z Rev.1.00 Jun 28, 2004

Features

- Low voltage type (tuning voltage 1 to 10 V), it is suitable for ET without DC/DC converter.
- Low series resistance. (rs = 0.6Ω max) and good C-V linearity.
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVD326C	A1	SFP

Pin Arrangement

	Cathode mark		
1 [A1 2	1. Cathode 2. Anode	



Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

ltem	Symbol	Value	Unit
Reverse voltage	V _R	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

Electrical Characteristics

 $(Ta = 25^{\circ}C)$ Symbol Unit **Test Condition** Item Min Тур Max nA Reverse current 10 $V_{R} = 10 V$ I_{R1} — — V_R = 10 V, Ta = 60°C I_{R2} ____ ____ 100 Capacitance C_1 13.0 16.0 $V_R = 1 V, f = 1 MHz$ pF _ C_{10} 2.0 2.3 $V_{R} = 10 V, f = 1 MHz$ _ Capacitance ratio n 6.0 C₁ / C₁₀ _ _ ____ Series resistance $V_R = 5 V, f = 470 MHz$ rs — 0.6 Ω ____ $\Delta C/C *^3$ ____ 2.0 Matching error ____ % $V_{R} = 1$ to 10 V, f = 1 MHz

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

2. 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.

 C.C system (Continuous Connected taping system) enable to make any 10 pcs of ∆C/C continuous in a reel, expect extention to another group.

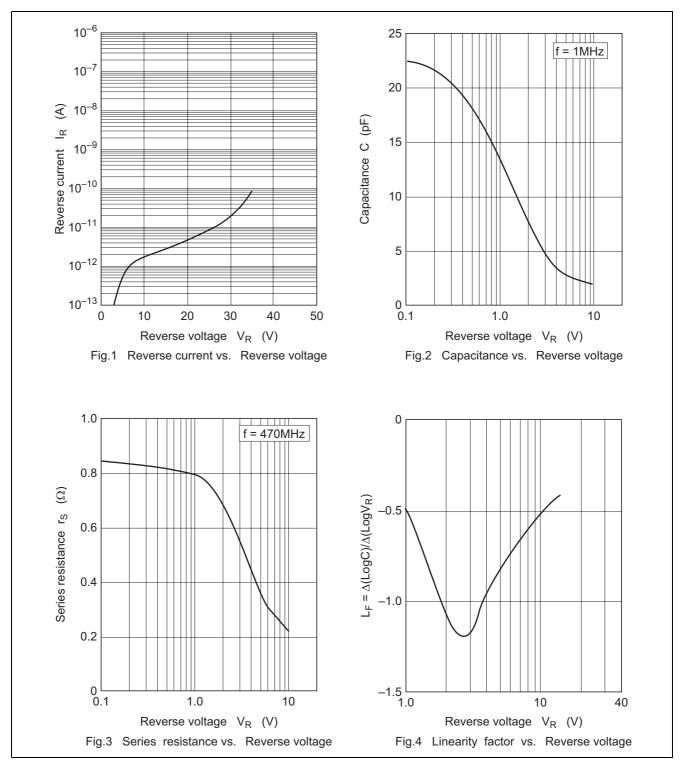
Calculate Matching Error,

 $\Delta C/C = \frac{(Cmax - Cmin)}{Cmin} \times 100 \ (\%)$

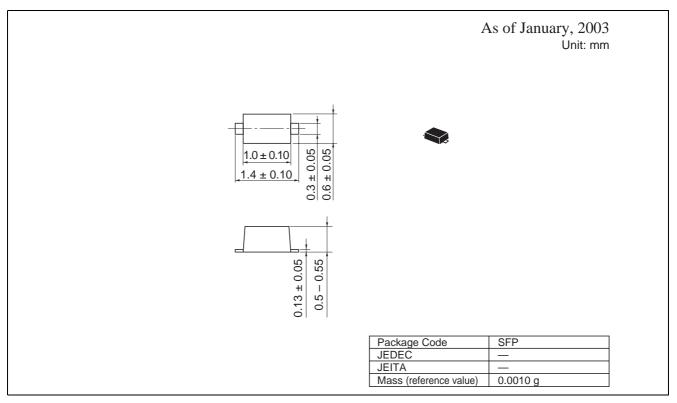
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Main Characteristic



Package Dimensions





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