

HVU307

Variable Capacitance Diode for VHF tuner

REJ03G0522-0700 (Previous: ADE-208-069F) Rev.7.00 Feb 23, 2005

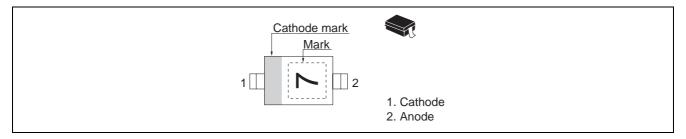
Features

- High capacitance ratio (n = 12.0 min).
- Low series resistance. (rs = 0.85Ω max).
- <u>Ultra small Resin Package (URP) is suitable for surface mount design.</u>

Ordering Information

	Type No.	Laser Mark	Package Name	Package Code (Previous Code)
I	HVU307	7	URP	PTSP0002ZA-A
				(URP)

Pin Arrangement





Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Reverse voltage	V _R	32	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

Electrical Characteristics

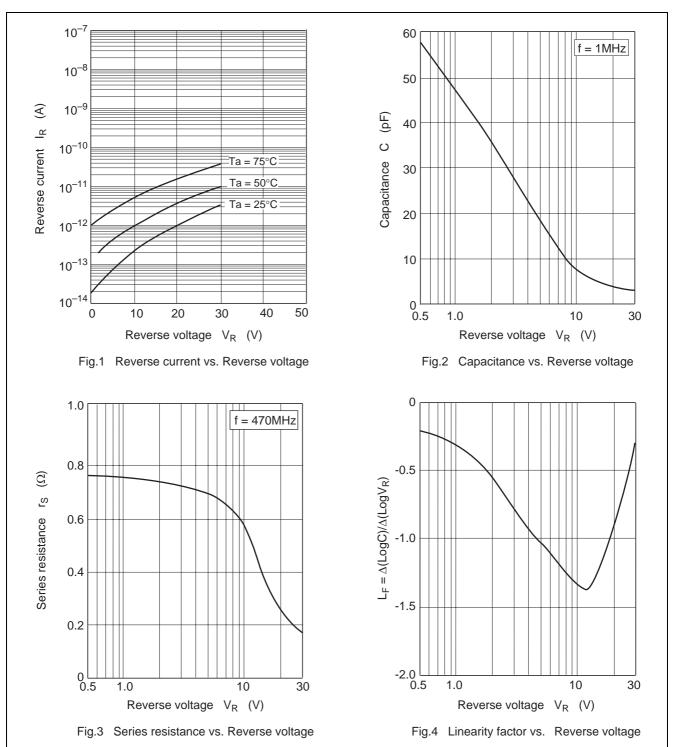
 $(Ta = 25^{\circ}C)$ ltem Symbol Max Unit **Test Condition** Min Тур 10 V_R = 30 V Reverse current I_{R1} nA ____ ____ 100 V_R = 30 V, Ta = 60°C I_{R2} ____ — Capacitance C_2 32.2 37.5 V_R = 2 V, f = 1 MHz ____ pF C₂₅ 2.57 3.00 V_R = 25 V, f = 1 MHz Capacitance ratio n 12.0 12.5 _ C₂ / C₂₅ Series resistance 0.85 V_R = 5 V, f = 470 MHz rs — — Ω $\Delta C/C *^1$ ____ 2.00 % V_{R} = 2 to 25 V, f = 1 MHz Matching error ____

Note: 1. 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,

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

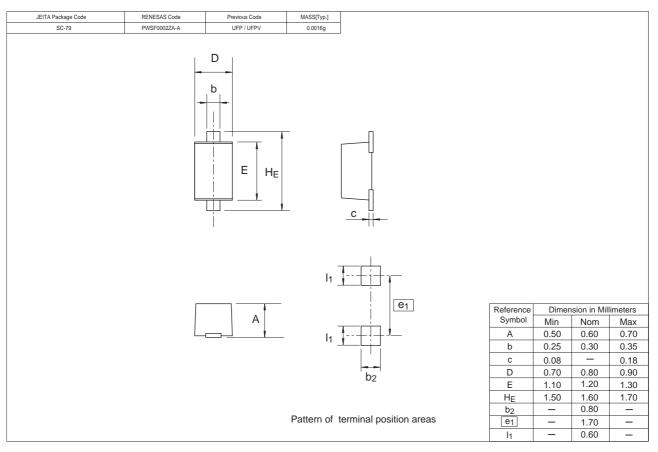




Main Characteristic



Package Dimensions





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