HSC277

Silicon Epitaxial Planar Diode for UHF/VHF tuner Band Switch

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ADE-208-413 (Z) Rev. 0 Dec. 1995

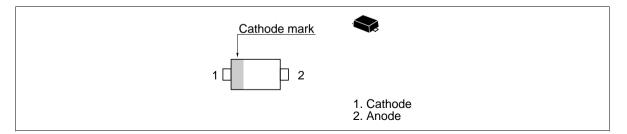
Features

- Low forward resistance. $(r_f = 0.7 \text{ max})$
- <u>Ultra small Flat Package (UFP) is suitable for surface mount design.</u>

Ordering Information

Type No.	Cathode Mark	Package Code
HSC277	Laser	UFP

Outline



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

Item	Symbol	Value	Unit
Reverse voltage	V _R	35	V
Junction temperature	Tj	125	°C
Power dissipation	Pd	150	mW
Operation temperature	Topr	-20 to +60	°C
Storage temperature	Tstg	-45 to +125	°C



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

Symbol **Test Condition** Item Min Unit Тур Max V_R 35 V $I_R = 10 \mu \overline{A}$ Reverse voltage ____ ____ $V_R = 25V$ Reverse current I_R 50 uΑ _ Forward voltage VF 1.0 V $I_F = 10 \text{mA}$ ____ $V_{R} = 6V, f = 1MHz$ Capacitance С 1.2 pF _ _ $I_{F} = 2mA, f = 100MHz$ Forward resistance 0.7 Ω r_f ____ ____

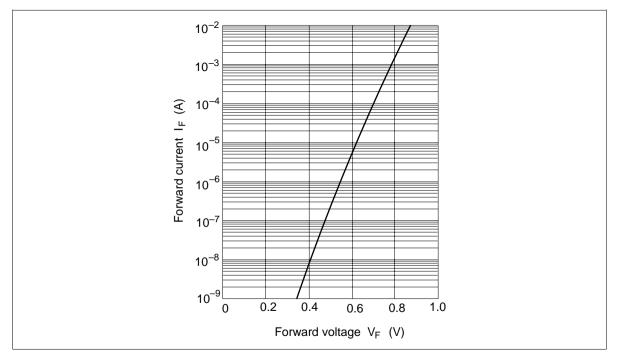
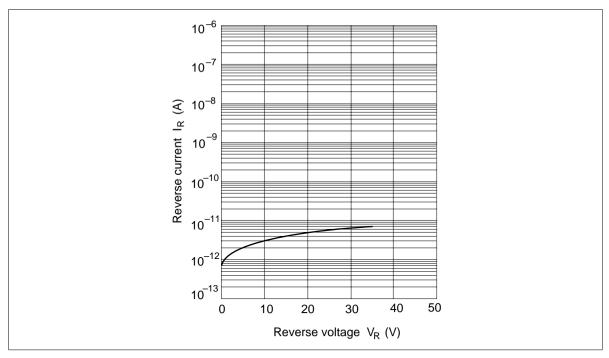
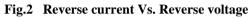


Fig.1 Forward current Vs. Forward voltage





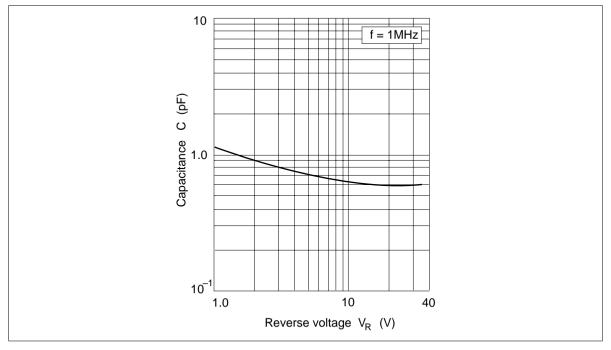


Fig.3 Capacitance Vs. Reverse voltage

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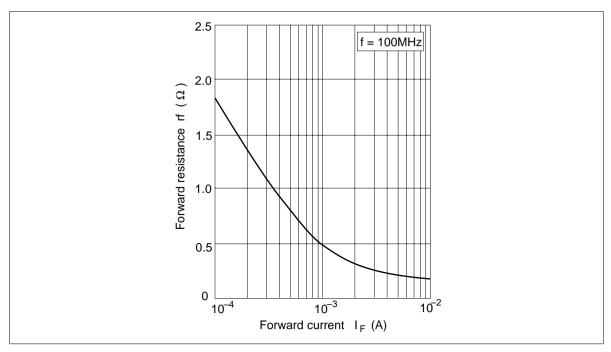
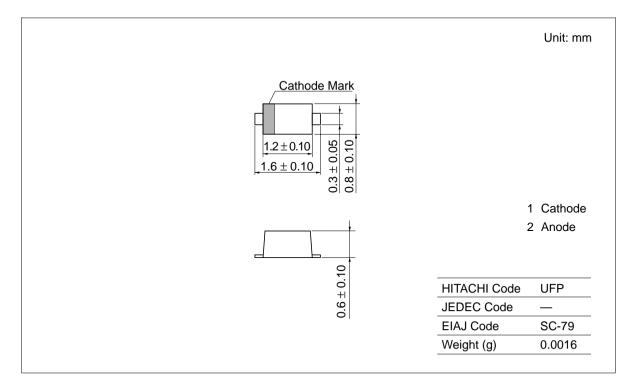


Fig.4 Forward resistance Vs. Forward current

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Package Dimensions



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