

GaAs Schottky Diode Series Pair Tee

Technical Data

HSCH-9501

Features

- Low Junction Capacitance typically 40 fF
- Low Series Resistance—typically 3Ω
- Large Bond Pads Suitable for Wire-bond or Flip-chip Assembly
- Polyimide Scratch Protection

Description

The HSCH-9501 is an integrated series pair of GaAs Schottky barrier diodes in a Tee configuration. It is a beamless version of the HSCH-9201 series pair beam lead diode.

Applications

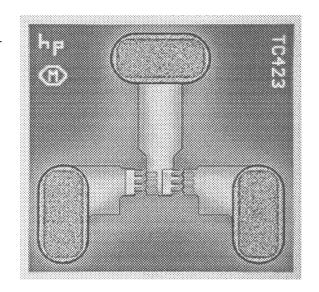
The HSCH-9501 is a highperformance millimeter wave diode that can be used as a balanced mixer or frequency multiplier in microwave and millimeter wave transceivers.

Specifications

V_F (1 mA): 700-800 mV
V_F (10 mA): 800-850 mV

• R_S (5 mA): <6 Ω • B_V (-10 mA): >4.5 V

• C_J (per diode): <0.050 pF



Chip Size: $620 \times 595 \mu m (24.4 \times 23.4 \text{ mils})$

Chip Size Tolerance: $\pm 10 \ \mu m \ (\pm 0.4 \ mils)$ Chip Thickness: $100 \ \mu m \ (4 \ mils)$ Chip Thickness Tolerance: $\pm 15 \ \mu m \ (\pm 0.6 \ mils)$

Bond Pad Sizes: $100 \times 200 \mu m (3.9 \times 7.9 \text{ mils})$

