

Zero Bias Schottky Detectors

Model STZ 265, 0.01 to 26.5 GHz



FEATURES

- Broadband, 0.01 to 26.5 GHz
- Flat Frequency Response
- Low VSWR, <2.0:1 to 26.5 GHz
- Excellent Sensitivity, 500 mV/mW
- Usable to 40 GHz



Description/Applications

ST Microwave STZ265 low barrier Schottky diode detectors are designed for use in laboratory measurements, microwave instrumentation, and broadband EW systems. They can be used with common oscilloscopes since they do not require D.C. bias current.

Their ease of use and broadband performance make ST Microwave Zero Biased Schottky Diode Detectors very useful measurement accessories.

Environmental Ratings -- See Page 15

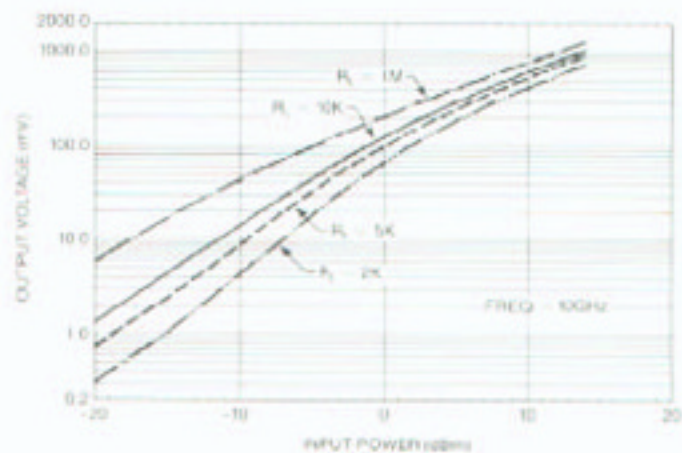
Zero Bias Schottky Detector Performance Specifications @ 25°C

Specifications	Typ.	Min.	Max.
Frequency Range (GHz)		0.01-26.5	
Flatness (dB) ¹			
0.01 - 18.0 GHz	+0.3		±0.5
18.0 - 26.5 GHz			±0.75
VSWR ¹			
0.01 - 18.0 GHz	1.4:1		1.5:1
18.0 - 26.5 GHz			2.0:1
Low Level Sensitivity			
(mV/mW)	500	400	

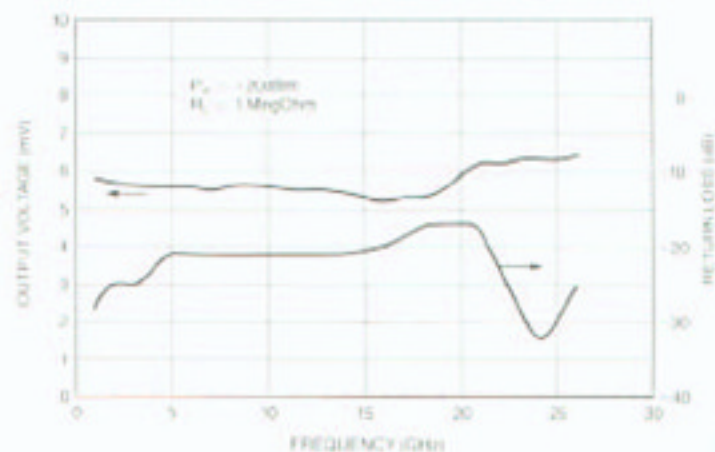
Outline Drawing -- B1

- NOTES: 1. Measured with $P_{in} = -20$ dBm, $R_L = 1$ MegOhm.
2. Output Polarity: STZ265 - Negative; STZ265P - Positive

Typical Transfer Curve



Output Voltage & Return Loss vs Frequency



For outline drawings, see page 22.