STZ 265 ZERO BIAS SCHOTTKY DETECTORS

TECHNICAL FEATURE

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

The STZ 265 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 DC bias current.

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

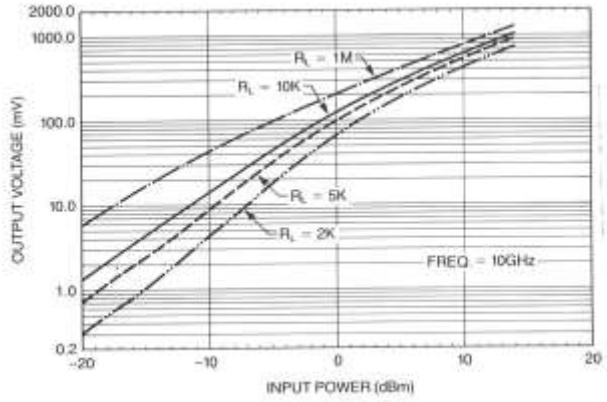
PERFORMANCE @ 25˚C

	Typ.	Min.	Max.
Frequency Range		0.01 – 26.5 GHz	
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			

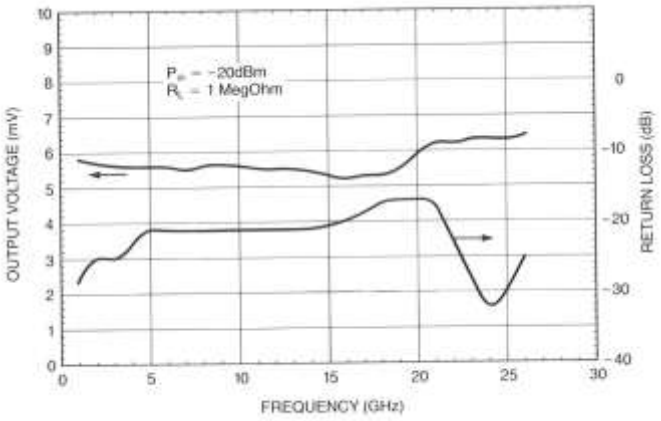
Notes:

1. Measured with P_{in} = -20 dBm, R_L = 1 Meg Ohm.
2. Output Polarity: STZ265 – Negative; STZ265P - Positive

TYPICAL TRANSFER CURVE



OUTPUT VOLTAGE & RETURN LOSS VS. FREQUENCY



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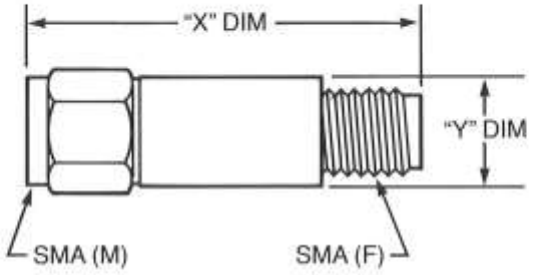
OUTLINE DRAWING

Case Style "B"



DASH NO.	DIM "X"—INCHES/MILLIMETER				DIM "Y"—INCHES/MILLIMETER			
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM	
	IN	MM	IN	MM	IN	MM	IN	MM
B1	1.01	25.65	1.05	26.67	.310	7.87	.335	8.51
B2	1.14	28.96	1.18	29.97	.310	7.87	.335	8.51
B3	1.29	32.77	1.33	33.78	.310	7.87	.335	8.51