



BIASED SCHOTTKY DIODE DETECTORS

SINGLE-DIODE GENERAL PURPOSE DS SERIES

0.1 - 40 GHz

FEATURES

- Low Output Resistance (350 Ohm Typical)
- Optimized Performance In Octave-Band Models
- Extremely Wideband and High Frequency Performance Available In a Single Unit (1 to 40 GHz)
- Hermetically-Sealed Module



APPLICATIONS

- Radar Equipment
- Transmitter Monitoring
- Power and Signal Monitoring
- Missile Guidance Systems

ENVIRONMENTAL RATINGS

Max Input Power 100mW CW
Operating Temperature Range.....-55°C to +125°C
Storage Temperature Range.....-55°C to +150°C
Shock..... 50G, 11 msec
Vibration..... 20G, 100 to 2000 Hz

Specifications: (@ +25°C, 100 μ A Bias, up to -20dBm Power Input)

MODEL ¹	FREQUENCY RANGE (GHz)	MINIMUM SENSITIVITY K (mV / mW)	TYPICAL TSS ² (dBm)	MAXIMUM FLATNESS (+/- dB)	TYPICAL OUTPUT CAPACITANCE (pF)	PACKAGE ³ STYLE
DS0105	0.1 - 0.5	1800	-52	0.5	100	C
DS0510	0.5 - 1.0	1800	-52	0.5	50	C
DS1020	1.0 - 2.0	2000	-52	0.5	20	C
DS2040	2.0 - 4.0	2000	-52	0.5	10	C
DS4080	4.0 - 8.0	2000	-52	0.5	10	C
DS8012	8.0 - 12	1800	-52	0.5	10	B
DS8016	8.0 - 16	1800	-52	0.6	10	B
DS8018	8.0 - 18	1600	-52	0.7	10	B
DS1826	18.0 - 26	1500	-51	1.0	10	B
DS1840	18.0 - 40	1000	-48	2.0	10	C1
DS2640	26.0 - 40	1000	-48	1.5	10	C1
DS1018	1.0 - 18	1600	-52	1.0	20	B
DS2018	2.0 - 18	1600	-52	1.0	10	B
DS1026	1.0 - 26	1400	-50	1.5	20	B
DS2026	2.0 - 26	1400	-50	1.5	10	B
DS1-40	1.0 - 40	1000	-48	2.0	20	C1
DS2-40	2.0 - 40	1000	-48	2.0	10	C1

Note 1: Negative output polarity standard. Add "P" to end of model number for positive output polarity.

Note 2: TSS based on 2 MHz video bandwidth and 2 dB amplifier NF.

Note 3: See detector package outlines.

For Package Outlines see Outline Drawings Page