

# ESS1018A3 Bias Schottky Diode Detector

SMA-F/SMA-M Negative Output Polarity

1.0 to 18.0 GHz Broadband



## Technical Characteristics

### Product Features

High Dynamic Range @100 uA typ. bias
Flat Frequency Response
Ultra Wideband and Ultra fast
Low Video Output Resistance (350 ohms typ.)
Negative Polarity is Standard
High Reliability Hermetically Sealed Coax
RoHS Compliant

### Product Export Classification

ECCN: EAR99 (Unless otherwise specified)

HTS: 8542330000

### Max. Ratings

Storage Temperature:	Storage temperature range: -65°C to +125°C
Operating Temperature:	Operating temperature range: -55°C to +90°C
Maximum input power:	Maximum input power: 200mW

## Electrical Specifications

Parameters	Freq. (GHz)	Min.	Typical	Max.	Units
Voltage Sensitivity	1.0 to 18.0 GHz	1500			mV/mW
Bias			100		μA
Tangential Sensitivity	1.0 to 18.0 GHz		-52		dBm
Flatness	1.0 to 18.0 GHz		0.75		+/-dB
Video Capacitance			50		pF
CW Power Handling				200	mWatts
Operating Temperature		-55		+125	°C

### NOTES:

1. TSS is measured with a 2 MHz video bandwidth and 2dB NF amplifier.
2. Typical values are measured at +25°C and are not guaranteed.

## Outline Drawing

