

# ESS2040A3 Bias Schottky Diode Detector

SMA-F/SMA-M Negative Output Polarity

2.0 to 4.0 GHz Octave Band



## 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

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

## Product Export Classification

ECCN: EAR99 (Unless otherwise specified)

HTS: 8542330000

## Electrical Specifications

Parameters	Freq. (GHz)	Min.	Typical	Max.	Units
Voltage Sensitivity	2.0 to 4.0 GHz	2000			mV/mW
Bias			100		μA
Tangential Sensitivity	2.0 to 4.0 GHz		-52		dBm
Flatness	2.0 to 4.0 GHz		0.25		+/-dB
Video Capacitance			20		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

