EZR2018QFN4 High Sensitivity ZBD Schottky Detector

2.0-18.0 GHz Detector

Technical Characteristics

Product Features
No Bias Required
Neg (-) Polarity
Broadband Flat Frequency Response
Low cost QFN 4mm leadless RoHS compliant/Hermetically Sealed
ECCN: EAR 99, HTS: 8541.10.0000

ABSOLUTE MAXIMUM RATING

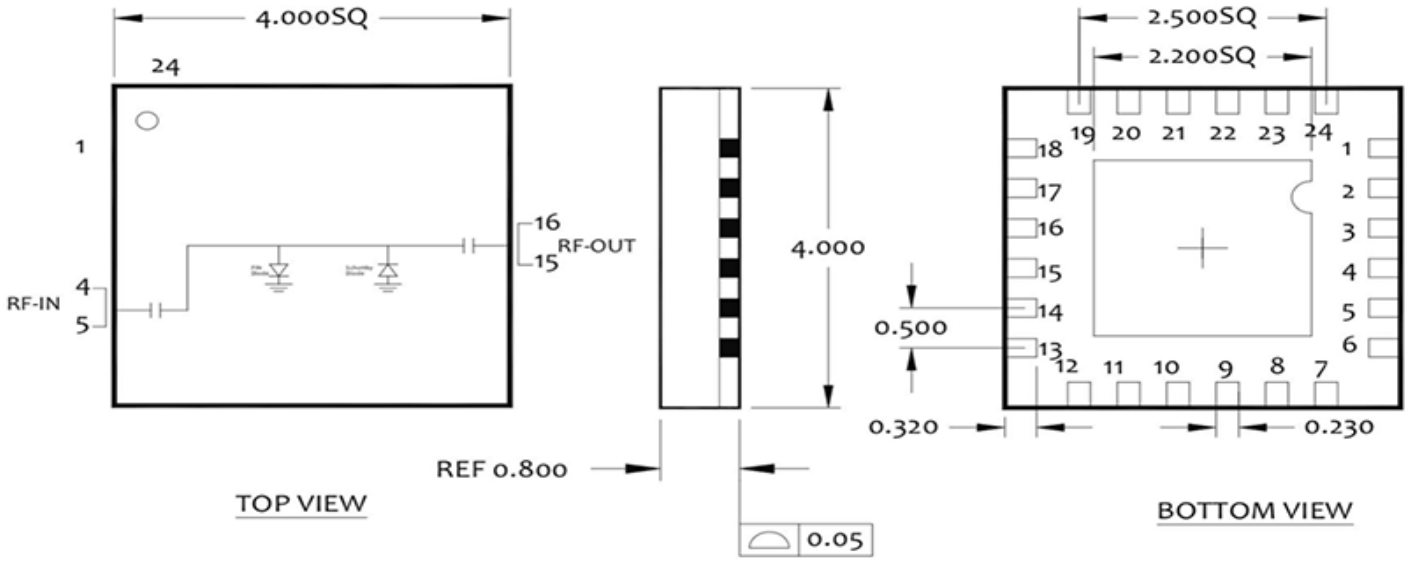
Maximum input power: +27dBm peak, +20dBm CW
Operating Temperature: -54° C to +100° C
Storage Temperature: -65° C to +100° C

Specification @ +25° & -20 dBm Input Power

Electrical Specifications

Parameters	Freq. (GHz)	Min.	Typical	Max.	Units
Voltage Sensitivity	2.0-18.0	800	1000		mV/mW Open Circuit
Voltage Sensitivity Stability over Temperature	2.0-18.0	2.5	3.0	3.5	dB
VSWR					
Flatness	2.0-18.0		+/- 1.00	+/-1.50	dB
Polarity			Neg (-)		eV
Video Capacitance				470	pF
Tss			-42		dBm (Note 1)

NOTES:
1 Tss is measured with a 2MHz bandwidth and 3 NF video amplifier.
2. Pins 4&5 – RF Input, Pins 15&16 – RF Output. All other Pins leave open or ground.
3. Typical values are measured at +25°C and are not guaranteed.
4. An external bypass (100pf) capacitor is required for operation to minimize RF feedthru.
5. Negative output polarity is standard, Add "P" to the end of the model number for Positive, Ex: EZR2018PQFN4



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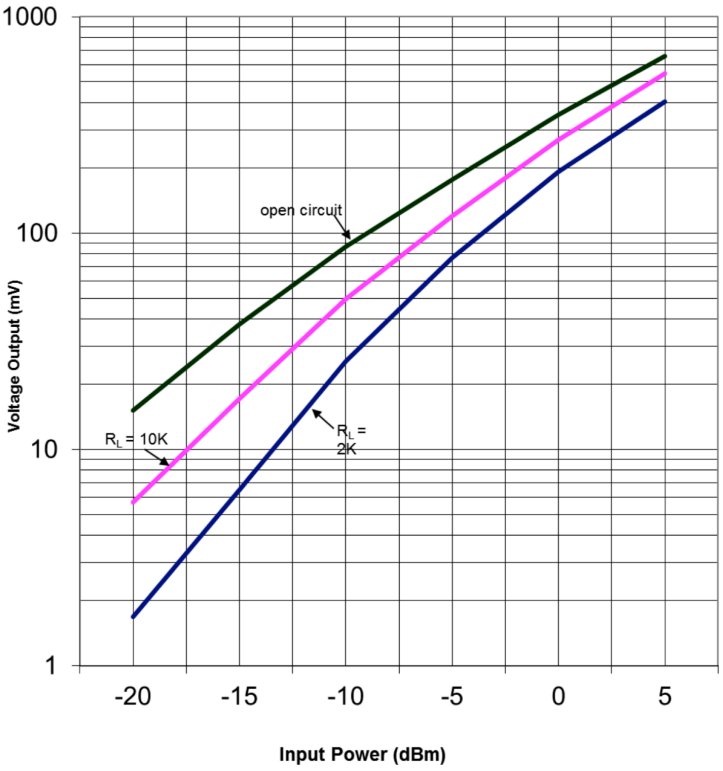
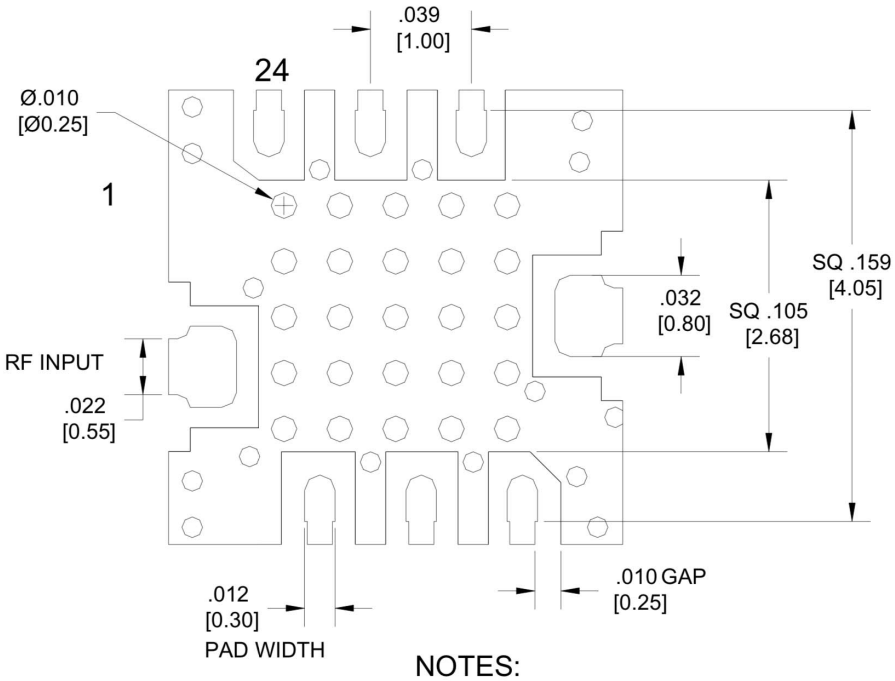
EZR series
Transfer Curve



RECOMMENDED PCB LAYOUT



NOTES:
1. MATERIAL: ROGERS 4350, 10 MIL THICK
2, DIMENSIONS ARE IN INCHES[MM]

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