Point Contact Diodes: 1N Series

Ka Band Point Contact Detector Diodes

Description

This **MicroMetrics** 1N series of Point Contact Detector diodes is designed for applications through Ka-Band. These diodes employ epitaxial silicon optimized for high tangential signal sensitivity (TSS), and are suitable for use in waveguide, coaxial and stripline applications. Being point contact diodes, they are efficient detectors not requiring the use of bias. Devices in this series are available in glass or cartridge packaging.

Applications

This 1N series of Point Contact Detectors is suitable for use in waveguide, coaxial and stripline applications

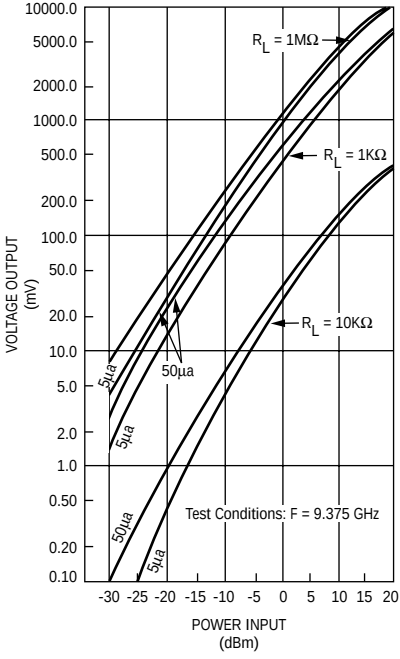
Features

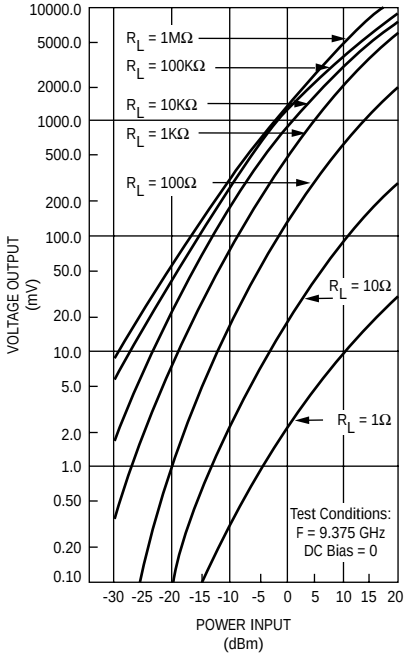
- Broadband Operations
- Bias Not Required

Packaging

- Glass or Cartridge

Typical Performance





MicroMetrics, Inc. 136 Harvey Road, Building C, Londonderry, NH 03053
Voice: 603-641-3800, Fax: 603-641-3500, Internet: www.micrometrics.com, E-mail: serv@micrometrics.com

Electrical Characteristics

Rectification Efficiency MIN	Tangential Signal Sensitivity (-dBm)	Video Resistance MAX (K Ohms)	Operating Frequency (MHz)	Case Style	Part Number
65%	-	-	100	CS85	1N830
65% @ 5 vdc	-	-	100	CS85	1N830A
-	49	22	3000	CS100	1N32
-	47	17	3000	CS100	1N32A
-	40	18	9375	CS85	1N833
-	45	18	9375	CS85	1N833A
-	51	3.1	9000	CS100	1N1611
-	53	3.1	9000	CS100	1N1611A
-	53	3.1	9000	CS100	1N1611B
-	50	10	9375	CS101	1N3778

Maximum Ratings

Operating Temperature	-55°C to + 150°C
Storage Temperature	-65°C to + 200°C