GUNN Diodes

Anode Heat Sink

MG1041 – MG1059

Features

- High Reliability
- Low-Phase Noise
- 9.5–35.5 GHz Operation
- Pulsed and CW Designs to 20 mW

Applications

- Motion Detectors
- Transmitters and Receivers
- Beacons
- Automotive Collision Avoidance Radars
- Radars
- Radiometers
- Instrumentation



Description

Microsemi's GaAs Gunn diodes, epi-up (anode heatsink), are fabricated from epitaxial layers grown at MSC by the Vapor Phase Epitaxy technique. The layers are processed using proprietary techniques resulting in ultra- low phase and 1/f noise. The diodes are available in a variety of microwave ceramic packages for operation from 9.5–35.5 GHz.

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Microsemi
Microwave Products
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MG1041 – MG1059

(Discrete Frequency: Anode Heatsink)

CW Epi-Up Gunn Diodes (Specifications @ 25°C)

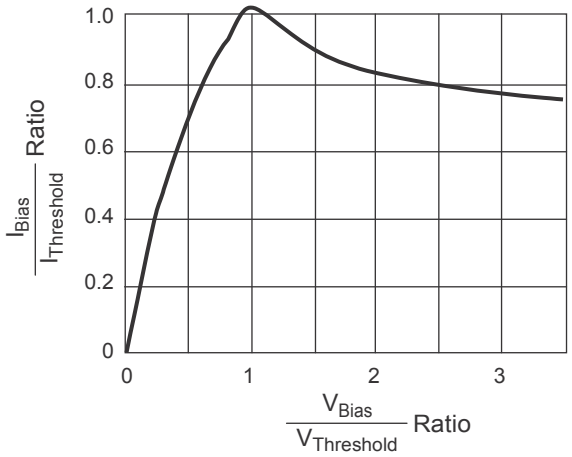
Part Number	Operating Frequency[1] (GHz)	Min. Power[2] (mW)	Typ. Operating Voltage (V)	Max. Operating Current (mA)	Package Outline[3]
MG1052-11	9.5–11.5	10	8	140	M11
MG1056-11	9.5–11.5	20	8	200	M11
MG1054-11	23.0–25.0	5	5	200	M11
MG1058-11	23.0–25.0	10	5	300	M11
MG1059-11	33.5–35.5	5	5	300	M11

Pulsed Epi-Up Gunn Diodes (Specifications @ 25°C)

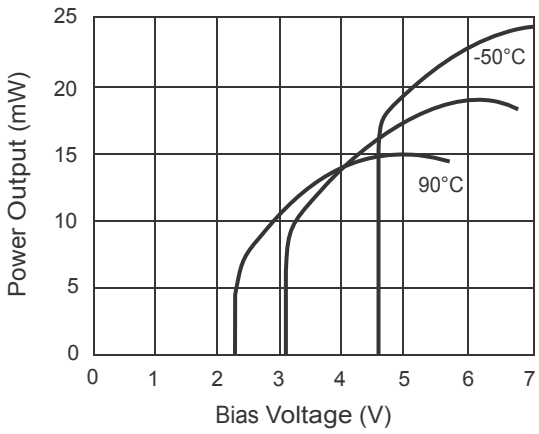
Part Number	Operating Frequency[1] (GHz)	Min. Power[2] (mW)	Typ. Operating Voltage (V)	Max. Operating Current (mA)	Package Outline[3]
MG1041-11	9.5–11.5	10	9	110	M11
MG1042-11	9.5–11.5	20	9	140	M11
MG1043-11	9.5–11.5	30	10	180	M11
MG1044-11	23.0–25.0	5	8	120	M11
MG1045-11	23.0–25.0	10	8	150	M11
MG1046-11	23.0–25.0	20	8	200	M11

[1] Microsemi Gunn diodes are specified to operate within a narrow range of a customer-designated center frequency within the operating frequency range shown. Additional frequencies are available; Please contact the factory.
[2] Power is measured using a critically coupled test cavity. For pulsed diodes, pulse width = 1 µS, duty factor = 1% typ.
[3] Polarity: cathode is the cap and anode is the heatsink.

Typical Characteristics



I_{Bias} Ratio vs. V_{Bias} Ratio



Power Output vs. Bias Voltage

IMPORTANT: For the most current data, consult our website: ***www.MICROSEMI.com***
Specifications are subject to change. Consult factory for the latest information.

These devices are ESD sensitive and must be handled using ESD precautions.

These products are supplied with a RoHS complaint Gold finish.

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Entegreci, Eskişehir merkezli, Türkiye geneline satış yapan bir elektronik komponent mağazasıdır. Entegreler (IC), mikrodenetleyiciler, transistörler, diyotlar, pasif elemanlar, konnektörler, modüller ve geliştirme kartları tek adetten seri üretim adetlerine kadar satılır. Ürün sayfalarında güncel stok durumunu, fiyatı ve datasheet bağlantısını bulabilirsiniz.

Parça koduyla arama

Üretici parça numarasını yazın; stok ve fiyatı hemen görün.

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Ürün kategorileri

Entegreden kapasitöre tüm elektronik komponent kategorileri.

Kategorilere göz atın

Üreticiler

Aradığınız üreticinin ürünlerini tek sayfada inceleyin.

Üreticileri görün

Toplu alım ve teklif

Listede olmayan ya da yüksek adetli parçalar için teklif isteyin.

Teklif isteyin

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Entegreci is an online electronic components store based in Türkiye. Search by manufacturer part number to see stock, prices and datasheets for integrated circuits, microcontrollers, transistors, passive components and connectors, or request a quote for parts that are not listed.

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