

GC9700 – GC9704

(e4

SCHOTTKY BARRIER DIODES General Purpose

RoHS Compliant



DESCRIPTION

This unique mesa construction (GC9700, GC9701, and GC9702) provides high breakdown voltage with true Schottky characteristics without resorting to the use of a diffused guard ring. The GC9703 and GC9704 are planar schottky devices. The standard devices are available in glass axial leaded packages as well as in chip form. Custom package styles are available on request.

APPLICATIONS

General high speed switching. High level mixers and detectors. Bridge quads for sampling circuits. Well suited for pulse shaping as well as limiting requirements..

ABSOLUTE MAXIMUM RATINGS AT 25º C UNLESS OTHERWISE SPECIFIED)						
Rating	Symbol	Value	Unit			
Carrier Lifetime	TL	100	pS			
Storage Temperature	T _{STG}	-65 to +200	°C			
Operating Temperature	T _{OP}	-55 to +150	°C			

KEY FEATURES

- Fast Switching
- Low Turn On Voltage
- Economical
- Tape and Reel Available
- RoHS Compliant¹

¹ The GC9700 Series of products are supplied with a RoHS complaint Gold finish.

APPLICATIONS/BENEFITS

- Mixers
- Detectors
- Limiters
- Pulse Shaping

CHIP ELECTRICAL PARAMETERS @ 25°C (unless otherwise specified)							
Model Number	V_b(V) Ι _R =10μΑ (Min)	C _T (pF) _{V_R=0∨ (Max)}	V _F (mV) _{I⊧} =1mA (Max)	I _F (mA) ¹ @ 1.0∨ (Min)	I _R (nA) @ ∨ _R (Max)	V _R (V)	
GC9700	70	2.1	430	15	200	50	
GC9701	30	1.5	430	50	100	25	
GC9702	20	1.5	430	35	300	15	
GC9703	8	1.2	350	10 ¹	100	1	
GC9704	5	0.8	600	10	100	1	

Notes:

1. I_F (min) for the GC9703 is measured at V_F = 0.5 V. All others measured at 1.0 V.

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PACKAGE STYLE 00

"B"

- "D"

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Typical Package Options

"A"

GOLD BACKING

GC9700 - GC9704

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RoHS Compliant (e4

PACKAGE STYLE 150A (-150E)

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DLATED CONTACTS

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www.MICROSEMI.com

 PKG
 DIMENSIONS (MLLS)

 STYLE
 V
 t
 T
 Z
 NOM

 ISOA
 L1¹/2
 60
 40
 30

 ISOB
 LS¹/4
 75
 50
 35

 ISOE
 LS¹/4
 100
 50
 35

 ISOE
 LS¹/4
 120
 60
 35

 ISOE
 20¹/5
 120
 60
 35

 ISOE
 20¹/5
 200
 100
 35

 TOL¹/2
 3
 3



SILICON

- Dimensions vary by model number
 - Consult factory for details
 - Order as GC25xx 00

PACKAGE STYLE 30



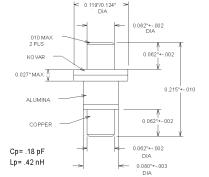
TOP VIEW

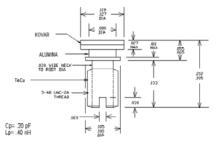
ZEDE VIEW

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EPOXY ENCAPSULATION

ALUMENA





OTHER PACKAGE STYLES AVAILABLE ON REQUEST CONSULT FACTORY