

# 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..

BSOLUTE MAXIMUM RATINGS AT 25° C JNLESS OTHERWISE SPECIFIED)						
Rating	Symbol	Value	Unit pS °C			
Carrier Lifetime	TL	100				
Storage Temperature	T <sub>STG</sub>	-65 to +200				
Operating Temperature	T <sub>OP</sub>	-55 to +150	°C			

### **KEY FEATURES**

- Fast Switching
- Low Turn On Voltage
- Economical
- Tape and Reel Available
- RoHS Compliant<sup>1</sup>

<sup>1</sup> The GC9700 Series of products are supplied with a RoHS complaint Gold finish.

### APPLICATIONS/BENEFITS

- Mixers
- Detectors
- Limiters
- Pulse Shaping

	CHIP ELECTRICA	IIP ELECTRICAL PARAMETERS @ 25°C (unless otherwise specified)								
	Model Number	<b>V<sub>b</sub>(V)</b> Ι <sub>R</sub> =10μΑ <b>(Min)</b>	C <sub>T</sub> (pF) <sub>V<sub>R</sub>=0∨ (Max)</sub>	V <sub>F</sub> (mV) I⊧=1mA (Max)	I <sub>F</sub> (mA) <sup>1</sup> @ 1.0∨ (Min)	I <sub>R</sub> (nA) @ ∨ <sub>R</sub> (Max)	V <sub>R</sub> (V)			
	GC9700	70	2.1	430	15	200	50			
	GC9701	30	1.5	430	50	100	25			
Ī	GC9702	20	1.5	430	35	300	15			
	GC9703	8	1.2	350	10 <sup>1</sup>	100	1			
	GC9704	5	0.8	600	10	100	1			

Notes:

Copyright © 2007

Rev: 2009-01-22

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



# GC9700 - GC9704

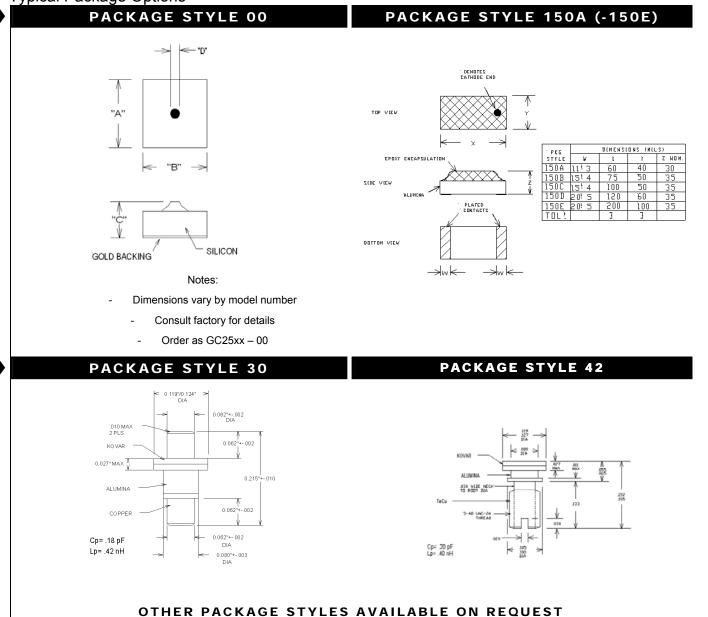
SCHOTTKY BARRIER DIODES General Purpose

RoHS Compliant (e4



# www.MICROSEMI.com





CONSULT FACTORY