

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

Operating Temperature

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

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.

ABSOLUTE MAXIMUM RATINGS AT 25° C (UNLESS OTHERWISE SPECIFIED) Rating **Symbol** Value Unit Carrier Lifetime T_L 100 pS °C Storage Temperature T_{STG} -65 to +200

TOP

APPLICATIONS/BENEFITS

- Mixers
- Detectors
- Limiters
- Pulse Shaping

CHIP ELECTRICAL PARAMETERS @ 25°C (unless otherwise specified)								
Model Number	V _b (V) I _R =10μΑ (Min)	C _T (pF) ∨ _R =0∨ (Max)	V _F (mV) I _F =1mA (Max)	I _F (mA) ¹ @ 1.0V (Min)	I _R (nA)	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		

-55 to +150

Notes:

 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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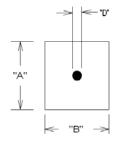


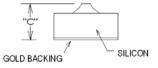


Typical Package Options

PACKAGE STYLE 00



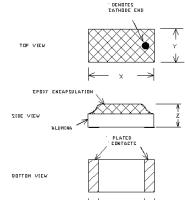




Notes:

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

PACKAGE STYLE 150A (-150E)

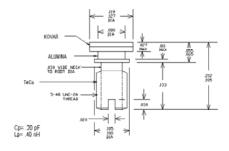


PKG	DINENSIONS (MILS)					
STYLE	V	ì	ſ	Z NOM.		
150A	11!3	60	40	30		
150B	15! 4	75	50	35		
150C	15! 4	100	50	35		
150D	20! 5	120	60	35		
150E	20!5	500	100	35		
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PACKAGE STYLE 30

0.119"0.124" > 0.062"+-.002

PACKAGE STYLE 42



OTHER PACKAGE STYLES AVAILABLE ON REQUEST CONSULT FACTORY