



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





# DCG010

Silicon Epitaxial Planar Type (Cathode Common)

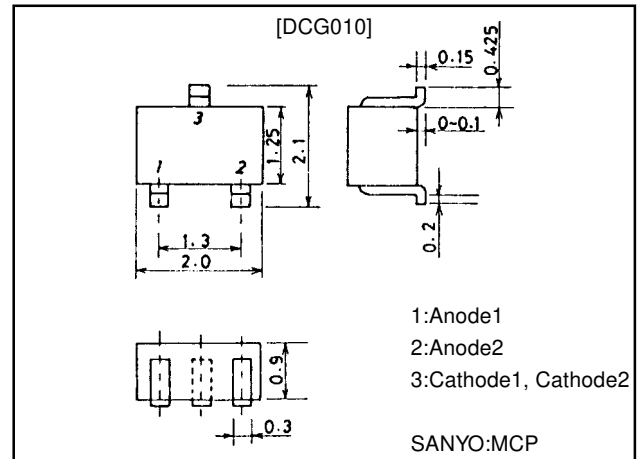
## Ultrahigh-Speed Switching Diode

### Features

- Ideally suited for use in hybrid ICs because of very small-sized package.
- Fast switching speed.
- Small interterminal capacitance.

### Package Dimensions

unit:mm  
1187A



### Specifications

#### Absolute Maximum Ratings at Ta = 25°C

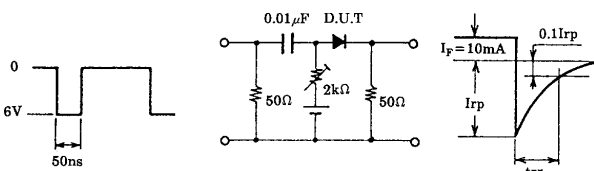
Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	$V_{RM}$		85	V
Reverse Voltage	$V_R$		80	V
Peak Forward Current	$I_{FM}$	Unit rating	300	mA
		Total rating	450	mA
Average Rectified Current	$I_O$	Unit rating	100	mA
		Total rating	150	mA
Surge Current(1 $\mu$ s)	$I_{FSM}$	Unit rating	4	A
		total rating	6	A
Allowable Power Dissipation	P		100	mW
Junction Temperature	$T_J$		125	°C
Storage Temperature	$T_{stg}$		-55 to +150	°C

#### Electrical Characteristics at Ta = 25°C

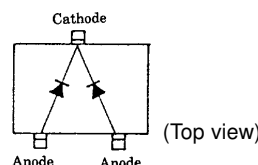
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	$V_{F1}$	$I_F=1mA$		0.60		V
	$V_{F2}$	$I_F=10mA$		0.72		V
	$V_{F3}$	$I_F=100mA$			1.20	V
Reverse Current	$I_{R1}$	$V_R=30V$			0.1	$\mu A$
	$I_{R2}$	$V_R=80V$			0.5	$\mu A$
Interterminal Capacitance	C	$V_R=0V, f=1MHz$			3.0	pF
Reverse Recovery Time	$t_{rr}$	$I_F=10mA, V_R=6V, R_L=50\Omega, I_{rr}=0.1I_{rp}$			4.0	ns

Marking:W6

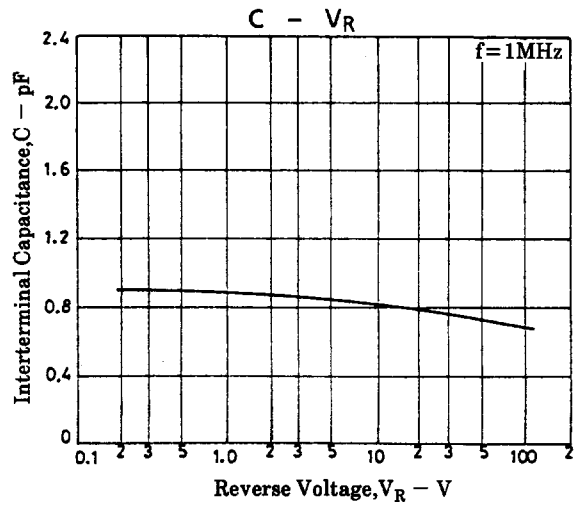
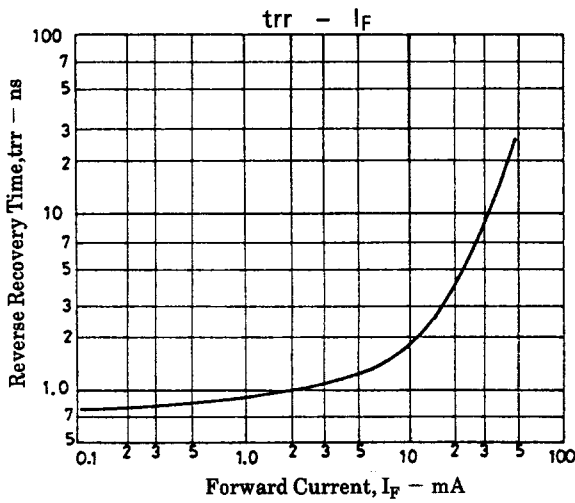
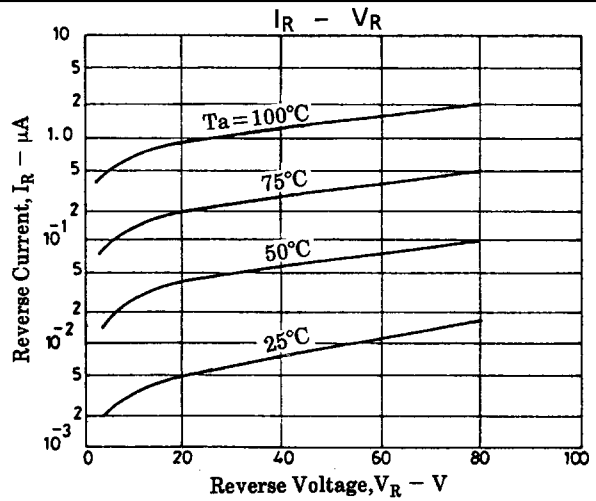
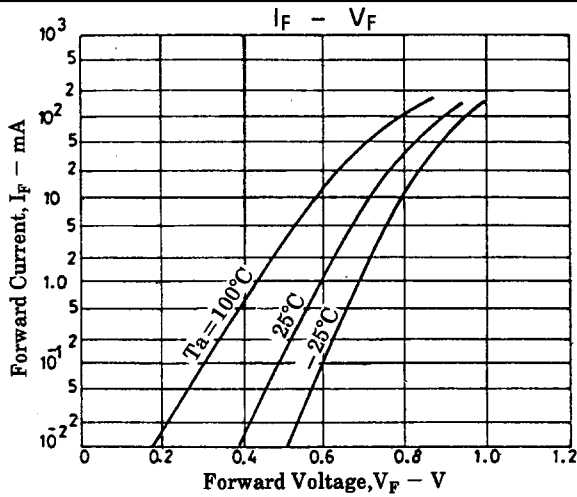
#### Reverse Recovery Time Test Circuit



#### Electrical Connection



**SANYO Electric Co.,Ltd. Semiconductor Business Headquarters**  
**TOKYO OFFICE, Tokyo Bldg., 1-10, Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN**



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