

DCG010

Silicon Epitaxial Planar Type (Cathode Common)

Ultrahigh-Speed Switching Diode

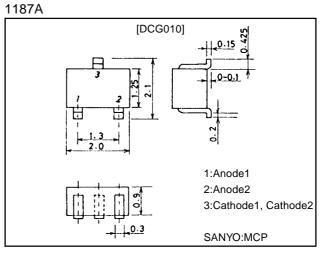
An ON Semiconductor Company

Features

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

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C

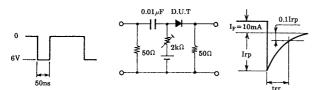
Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V _{RM}		85	V
Reverse Voltage	V _R		80	V
Peak Forward Current	IFM	Unit rating	300	mA
		Total rating	450	mA
Average Rectified Current	IO	Unit rating	100	mA
		Total rating	150	mA
Surge Current(1µs)	IFSM	Unit rating	4	Α
		total rating	6	Α
Allowable Power Dissipation	Р		100	mW
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

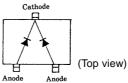
Parameter	Symbol	Conditions	Ratings			Unit
i alametei			min	typ	max	
Forward Voltage	V _{F1}	I _F =1mA		0.60		V
	V _{F2}	I _F =10mA		0.72		V
	V _{F3}	I _F =100mA			1.20	V
Reverse Current	I _{R1}	V _R =30V			0.1	μΑ
	I _{R2}	V _R =80V			0.5	μΑ
Interterminal Capacitance	С	V _R =0V, f=1MHz			3.0	pF
Reverse Recovery Time	trr	$I_F=10mA$, $V_R=6V$, $R_L=50\Omega$, $I_{rr}=0.1Irp$			4.0	ns

Marking:W6

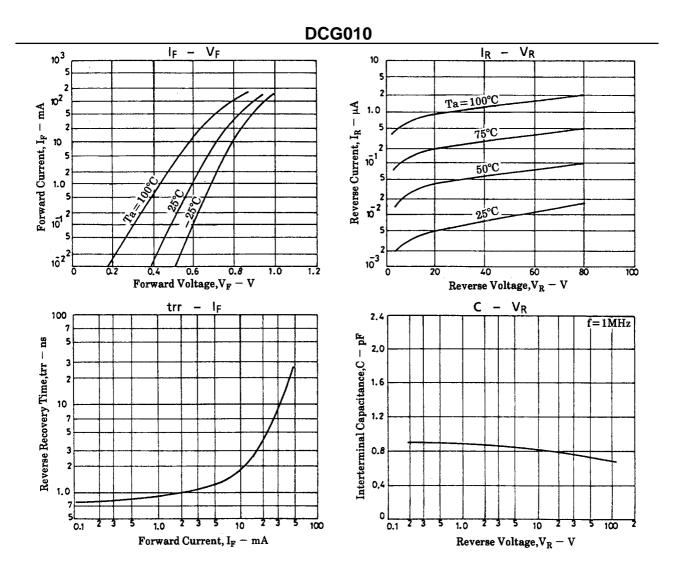
Reverse Recovery Time Test Circuit



Electrical Connection



SANYO Semiconductor Co., Ltd. http://semicon.sanyo.com/en/network



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