

DCC010

Sillicon Epitaxial Planar Type (Series Connection)

Ultrahigh-Speed Switching Diode

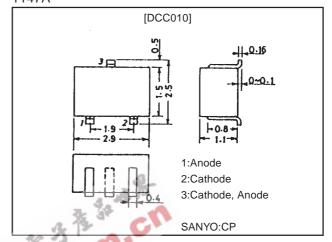
Features

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

Package Dimensions

unit:mm

1147A



Specifications

Absolute Maximum Ratings at Ta = 25°C

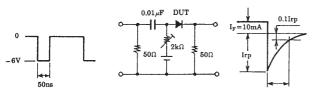
Parameter	Symbol	Conditions Rating		Unit
Peak Reverse Voltage	V _{RM}		85	V
Reverse Voltage	V_{R}		80	V
Peak Forward Current	IFM	Unit Rating	300	mA
			210	mA
Average Rectified Current	lo	Unit Rating	100	mA
			70	mA
Surge Current (1µs)	^I FSM	Unit Rating	4	Α
			2.8	Α
Power Dissipation	Р		200	mW
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

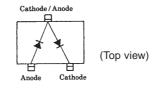
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Forward Voltage	V _F (1)	I _F =1mA		0.60		V
	V _F (2)	I _F =10mA		0.72		V
	V _F (3)	I _F =100mA			1.20	V
Reverse Current	I _R (1)	V _R =30V			0.1	μA
	I _R (2)	V _R =80V			0.5	μA
Interterminal Capacitance	С	V _R =0V, f=1MHz			3.0	pF
Reverse Recovery Time	trr	$I_F=10$ mA, $V_R=6$ V, $R_L=50\Omega$, $I_{rr}=0.1$ Irp			4.0	ns

· Marking:W7

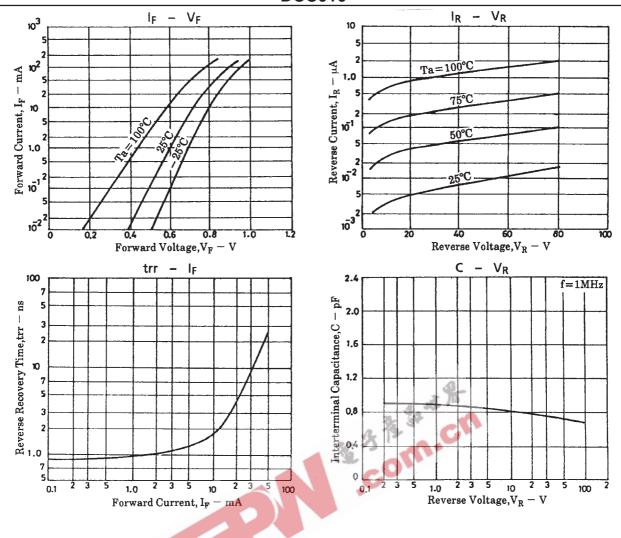
Reverse Recovery Time Test Circuit



Electrical Connection



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