Ordering number :EN1896B

DCC010

Silicon Epitaxial Planar Type (Series Connection)

Ultrahigh-Speed Switching Diode

An ON Semiconductor Company

Features

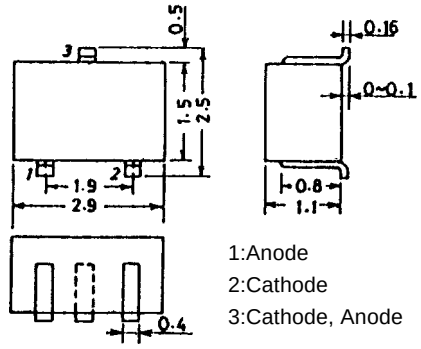
- Ideally suited for use in hybrid ICs because of very small package.
- Fast switching speed.
- Small interterminal capacitance.

Package Dimensions

unit:mm

1147A

[DCC010]



1:Anode
2:Cathode
3:Cathode, Anode

SANYO:CP

Specifications

Absolute Maximum Ratings at Ta = 25˚C

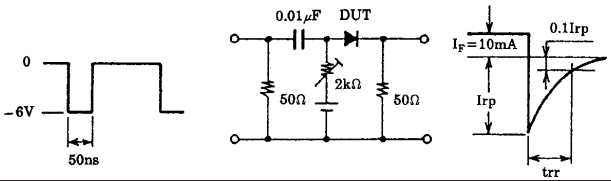
Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		85	V
Reverse Voltage	V_R		80	V
Peak Forward Current	I_{FM}	Unit Rating	300	mA
			210	mA
Average Rectified Current	I_O	Unit Rating	100	mA
			70	mA
Surge Current (1μs)	I_{FSM}	Unit Rating	4	A
			2.8	A
Power Dissipation	P		200	mW
Junction Temperature	Tj		125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

Electrical Characteristics at Ta = 25˚C

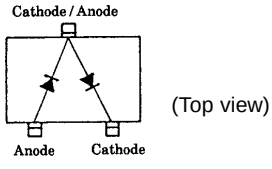
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	$V_F(1)$	I_F=1mA		0.60		V
	$V_F(2)$	I_F=10mA		0.72		V
	$V_F(3)$	I_F=100mA			1.20	V
Reverse Current	$I_R(1)$	V_R=30V			0.1	μA
	$I_R(2)$	V_R=80V			0.5	μA
Interterminal Capacitance	C	V_R=0V, f=1MHz			3.0	pF
Reverse Recovery Time	trr	I_F=10mA, V_R=6V, R_L=50Ω, Irr=0.1Irp			4.0	ns

· Marking:W7

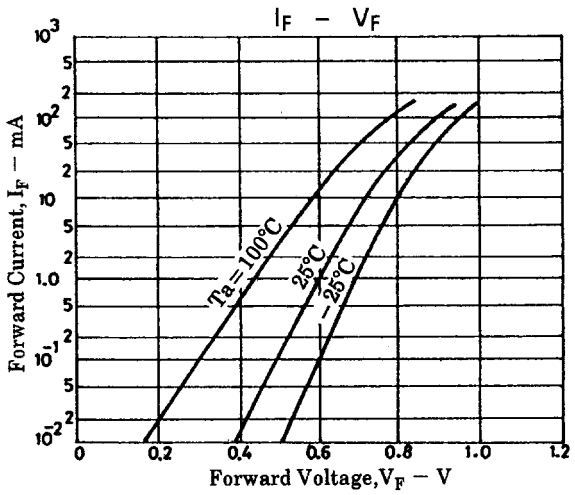
Reverse Recovery Time Test Circuit

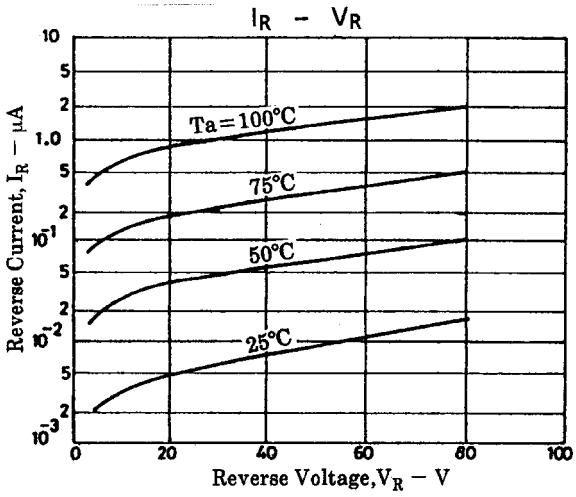


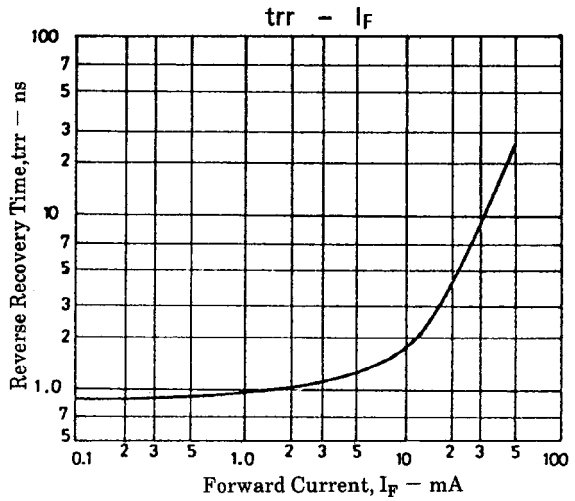
Electrical Connection

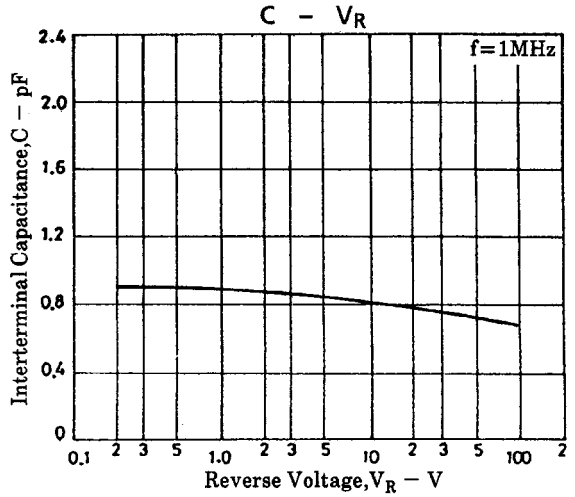


(Top view)









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