



# DCD015

Silicon Epitaxial Planar Type (Anode Common)

## High-Speed Switching Diode

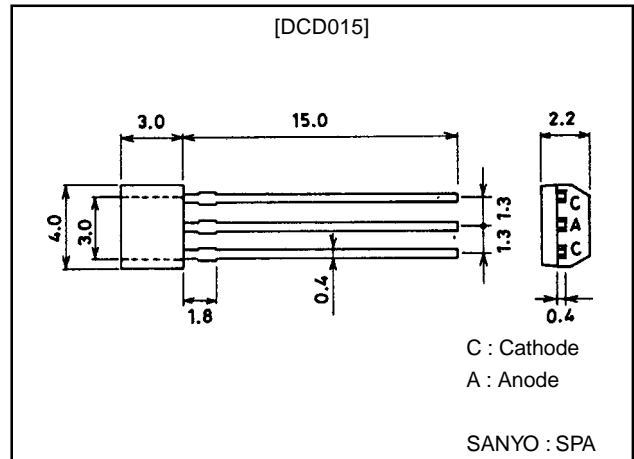
### Features

- Fast switching speed.
- 2 diodes place in one package.

### Package Dimensions

unit:mm

1131



### Specifications

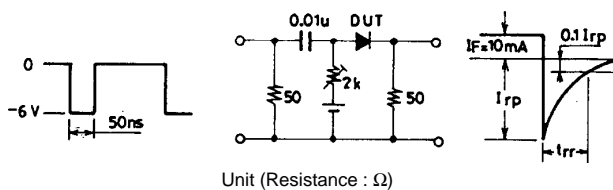
#### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	$V_{RM}$		75	V
Reverse Voltage	$V_R$		50	V
Surge Current	$I_{FSM}$	1 $\mu$ s	4	A
Average Rectified Current	$I_O$		100	mA
		Total Value	150	mA
Peak Forward Current	$I_{FM}$		300	mA
		Total Value	450	mA
Junction Temperature	$T_J$		125	°C
Storage Temperature	$T_{stg}$		-55 to +125	°C

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

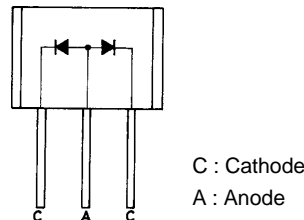
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	$V_F$	$I_F=10mA$		0.75	1.0	V
		$I_F=50mA$		0.85	1.0	V
		$I_F=100mA$			1.2	V
Reverse Current	$I_R$	$V_R=50V$			100	nA
Interterminal Capacitance	C	$V_R=0V, f=1MHz$			9	pF
Reverse Recovery Time	$t_{rr}$	$I_F=10mA, V_R=6V, R_L=50\Omega, I_{rr}=0.1I_{rp}$			15	ns

#### Reverse Recovery Time Test Circuit



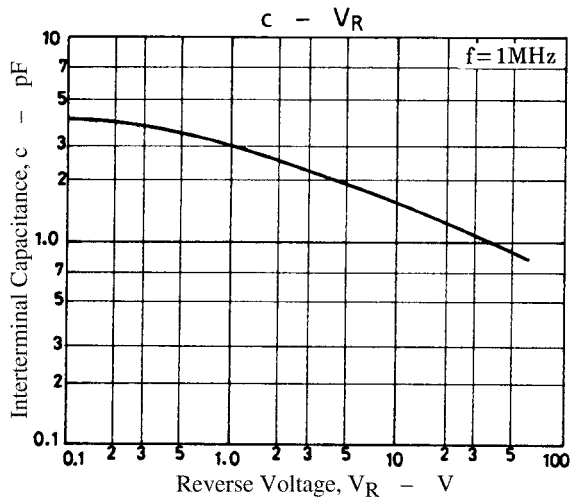
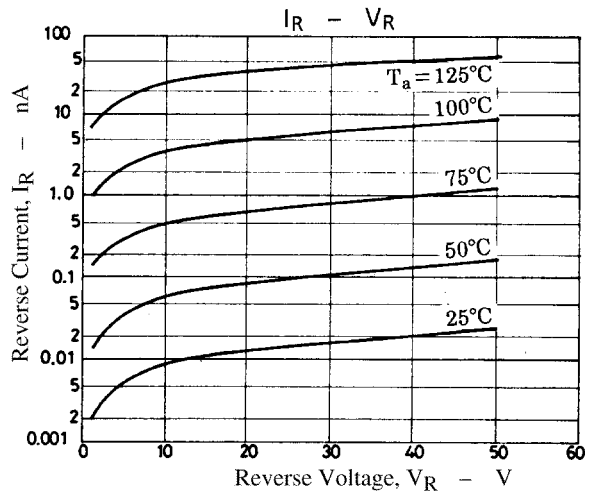
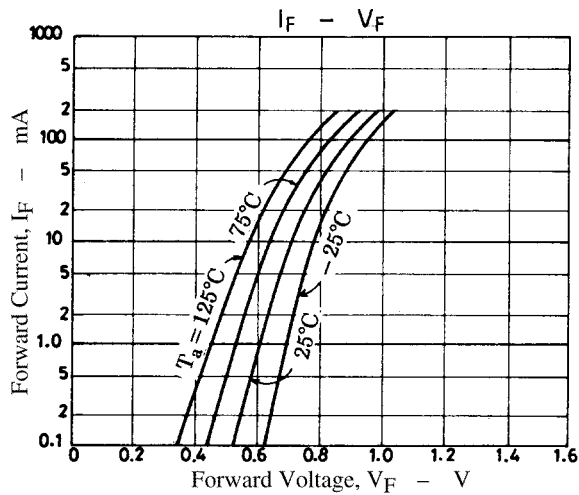
Unit (Resistance :  $\Omega$ )

#### Electrical Connection



C : Cathode  
A : Anode

# DCD015



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