

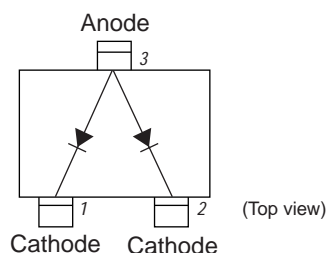


**Very High-Speed Switching Diode**

**Features**

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

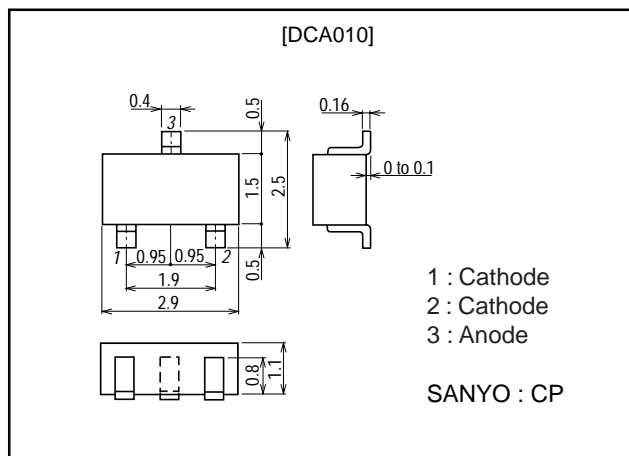
**Electrical Connection**



**Package Dimensions**

unit : mm

1117B



**Specifications**

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

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V <sub>RM</sub>		85	V
Reverse Voltage	V <sub>R</sub>		80	V
Peak Forward Current	I <sub>FM</sub>	Unit rating	300	mA
		Total rating	450	mA
Average Rectified Current	I <sub>O</sub>	Unit rating	100	mA
		Total rating	150	mA
Surge Current (1μs)	I <sub>FSM</sub>	Unit rating	4	A
		Total rating	6	A
Allowable Power Dissipation	P		200	mW
Junction Temperature	T <sub>J</sub>		125	°C
Storage Temperature	T <sub>stg</sub>		-55 to +125	°C

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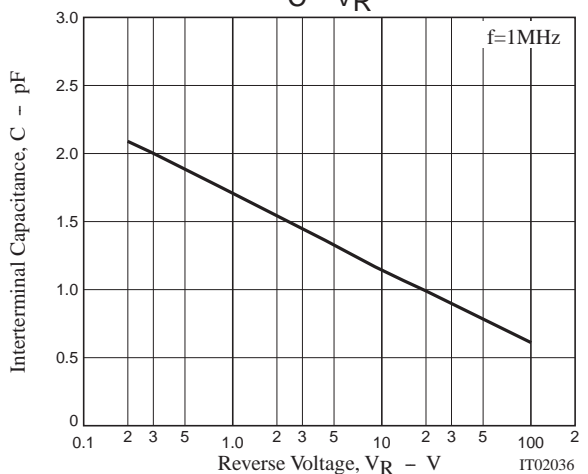
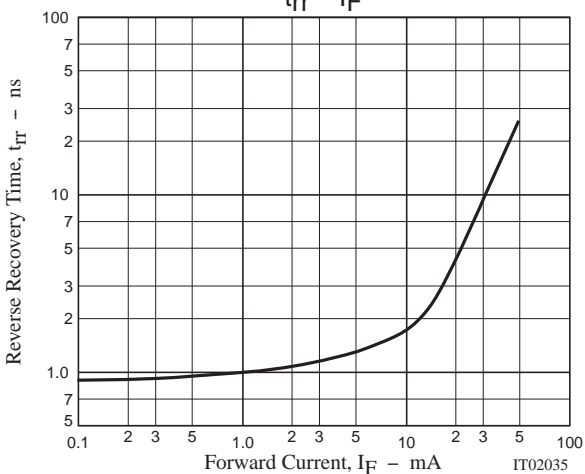
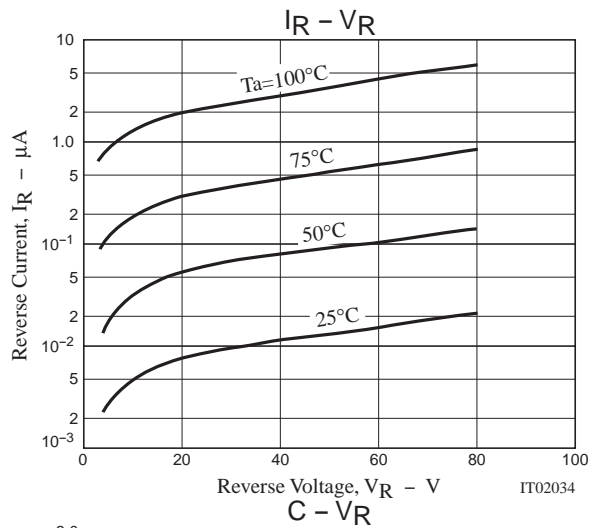
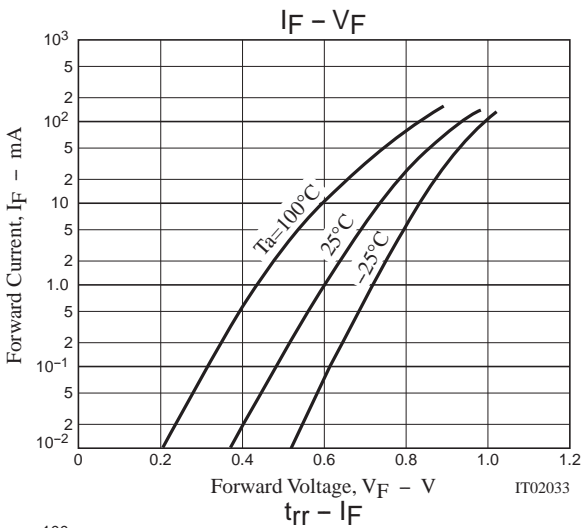
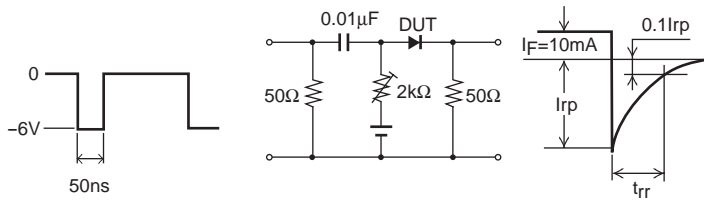
# DCA010

## Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	min	typ	max	Unit
Forward Voltage	$V_{F1}$	$I_F=1\text{mA}$		0.61		V
	$V_{F2}$	$I_F=10\text{mA}$		0.74		V
	$V_{F3}$	$I_F=100\text{mA}$			1.20	V
Reverse Current	$I_{R1}$	$V_R=30\text{V}$			0.1	$\mu\text{A}$
	$I_{R2}$	$V_R=80\text{V}$			0.5	$\mu\text{A}$
Interterminal Capacitance	C	$V_R=0, f=1\text{MHz}$			4.0	pF
Reverse Recovery Time	$t_{rr}$	$I_F=10\text{mA}, V_R=6\text{V}, R_L=50\Omega, I_{rr}=0.1I_{rp}$			4.0	ns

Marking : W5

## Reverse Recovery Time Test Circuit



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