

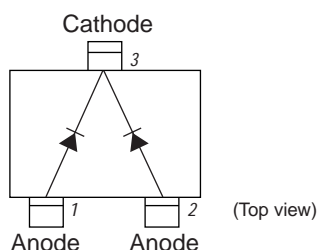


## Very High-Speed Switching Diode

### Features

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

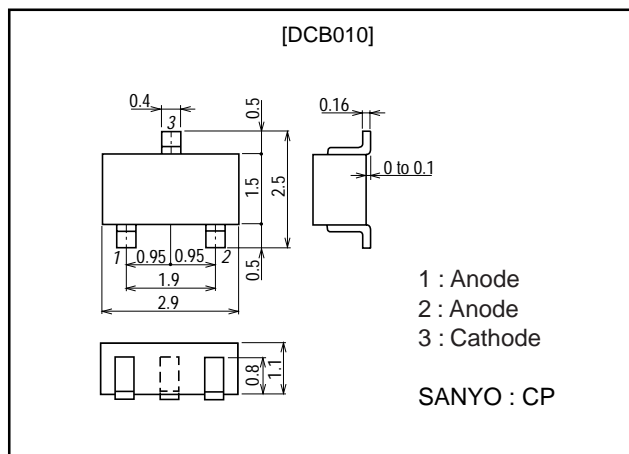
### Electrical Connection



### Package Dimensions

unit : mm

1169A



### 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>		300	mA
	I <sub>FM</sub> *		450	mA
Average Rectified Current	I <sub>O</sub>		100	mA
	I <sub>O</sub> *		150	mA
Surge Current (1μs)	I <sub>FSM</sub>		4	A
	I <sub>FSM</sub> *		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

\* : Total value

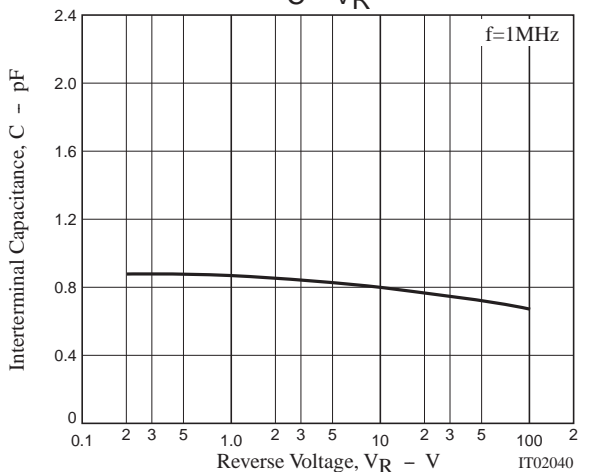
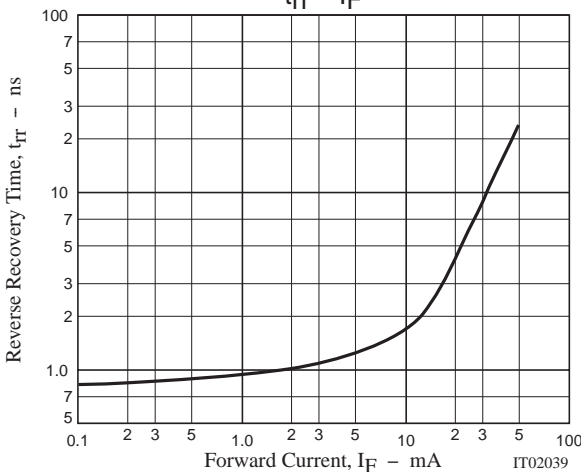
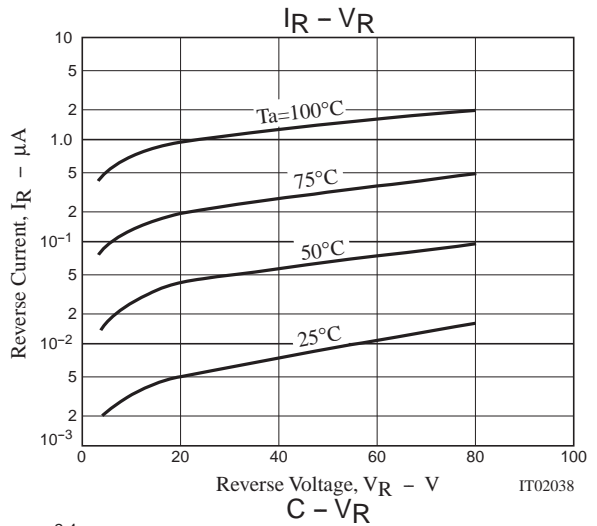
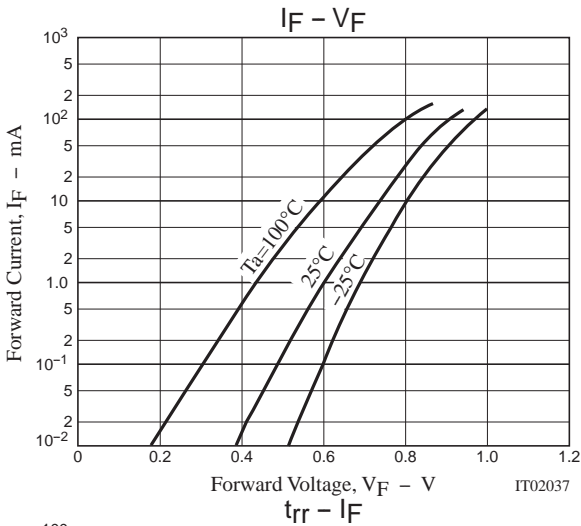
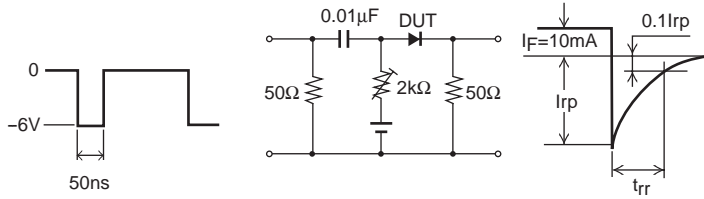
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Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	min	typ	max	Unit
Forward Voltage	V <sub>F1</sub>	I <sub>F</sub> =1mA		0.60		V
	V <sub>F2</sub>	I <sub>F</sub> =10mA		0.72		V
	V <sub>F3</sub>	I <sub>F</sub> =100mA			1.20	V
Reverse Current	I <sub>R1</sub>	V <sub>R</sub> =30V			0.1	μA
	I <sub>R2</sub>	V <sub>R</sub> =80V			0.5	μA
Interterminal Capacitance	C	V <sub>R</sub> =0, f=1MHz			3.0	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =10mA, V <sub>R</sub> =6V, R <sub>L</sub> =50Ω, I <sub>rr</sub> =0.1I <sub>rp</sub>			4.0	ns

Marking : W6

Reverse Recovery Time Test Circuit



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