

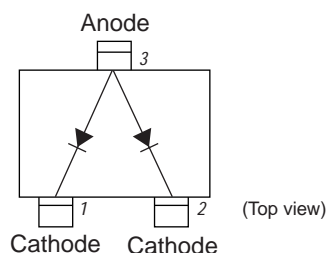


Very High-Speed Switching Diode

Features

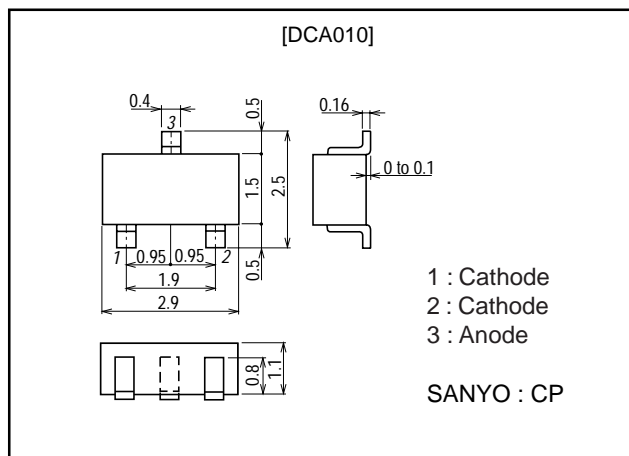
- Ideally suited for use in hybrid ICs because of very small-sized package.
- Fast switching speed.
- Small interterminal capacitance.

Electrical Connection



Package Dimensions

unit : mm
1117B



Specifications

Absolute Maximum Ratings at Ta=25°C

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

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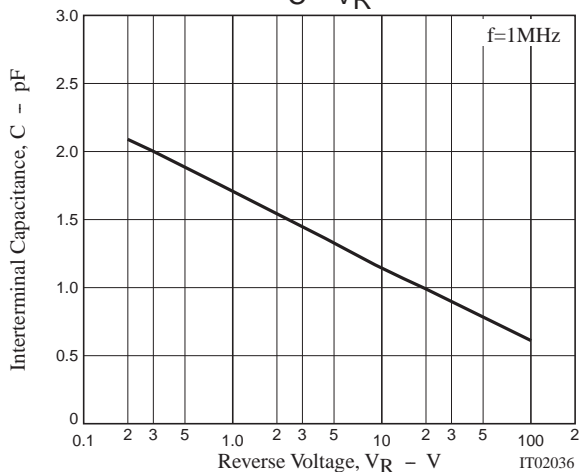
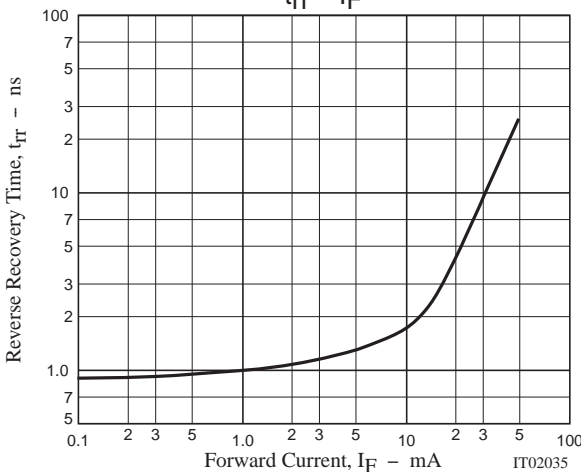
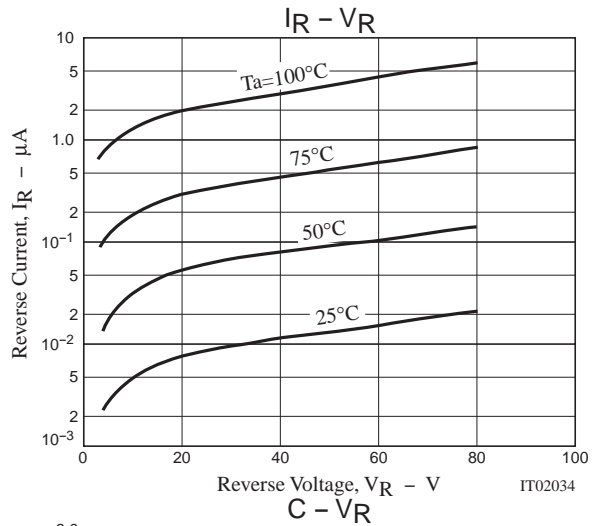
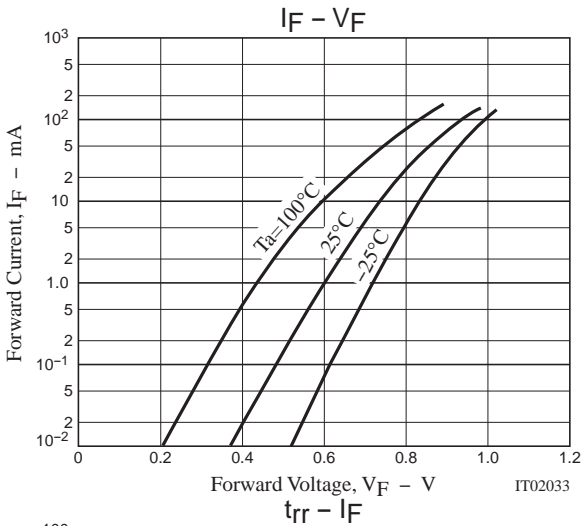
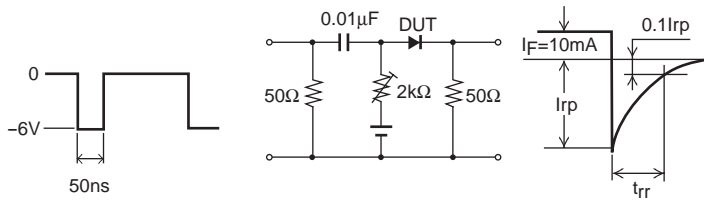
DCA010

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	μA
	I_{R2}	$V_R=80\text{V}$			0.5	μA
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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