

**DSE010**

Ultrahigh-Speed Switching Diodes

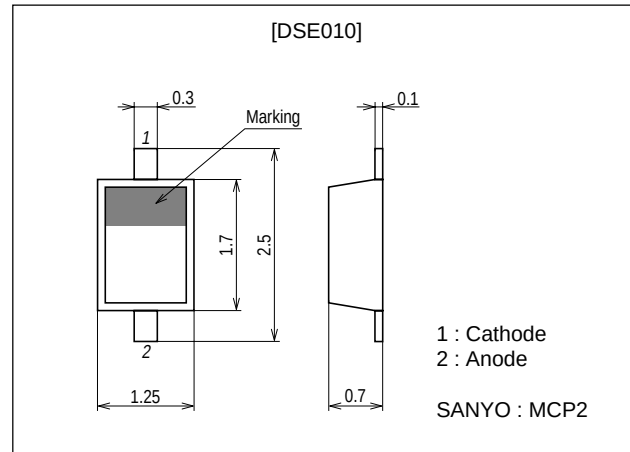
Features

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

Package Dimensions

unit : mm

1260



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		90	V
Reverse Voltage	V_R		80	V
Peak Forward Current	I_{FM}		225	mA
Average Rectified Current	I_O		100	mA
Surge Forward Current	I_{FSM}	1s pulse	500	mA
Junction Temperature	T_J		125	°C
Storage Temperature	T_{stg}		-55 to +125	°C

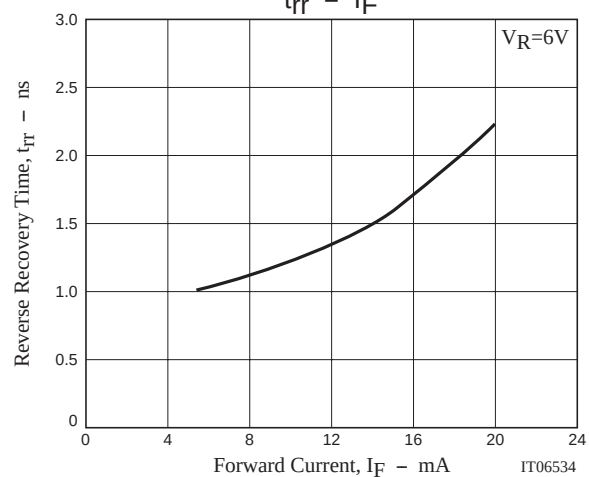
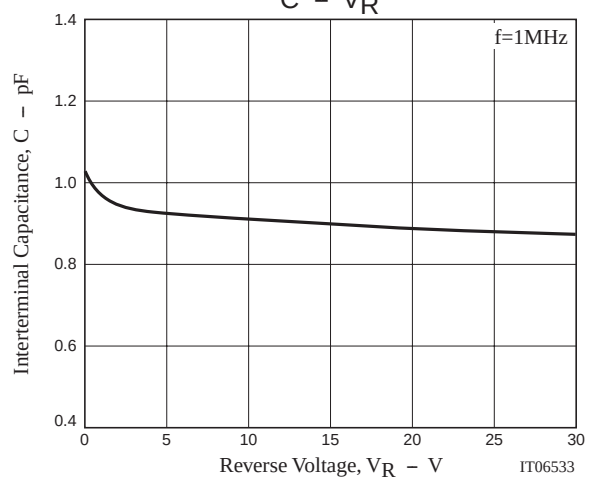
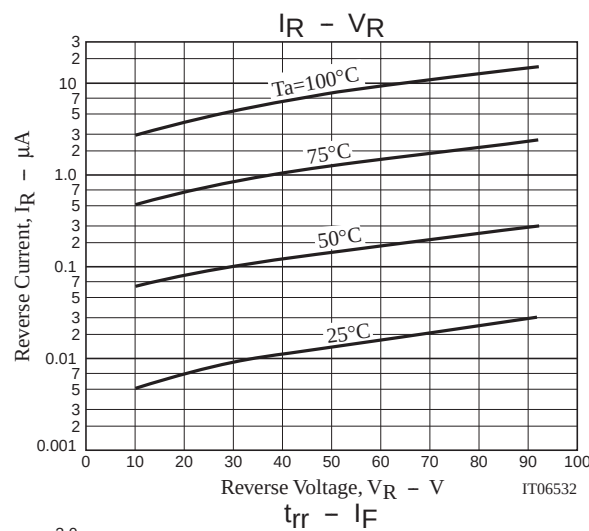
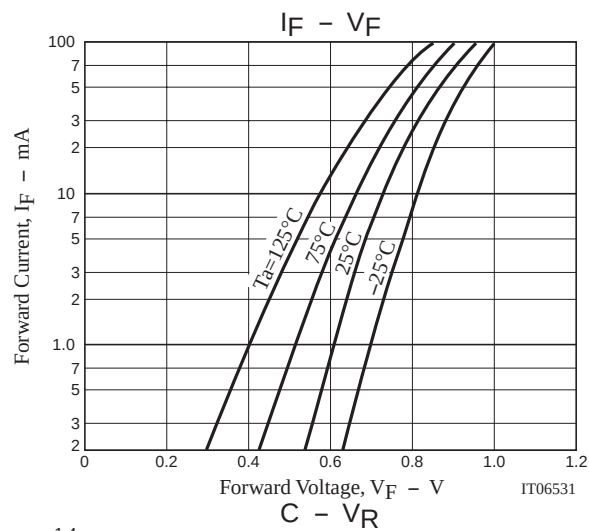
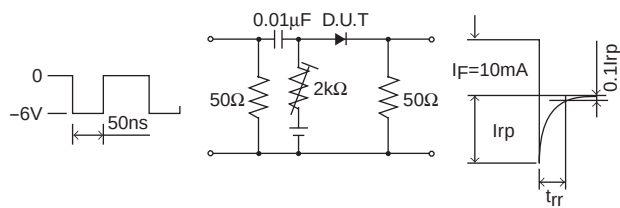
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=100\text{mA}$			1.2	V
Reverse Current	I_R	$V_R=80\text{V}$			0.5	μA
Interterminal Capacitance	C	$V_R=0.5\text{V}$, $f=1\text{MHz}$			3.0	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 : A

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t_{rr} Test Circuit



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