

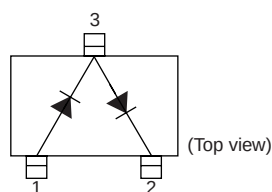
**DCH010**

Ultrahigh-Speed Switching Diodes

Features

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

Electrical Connection

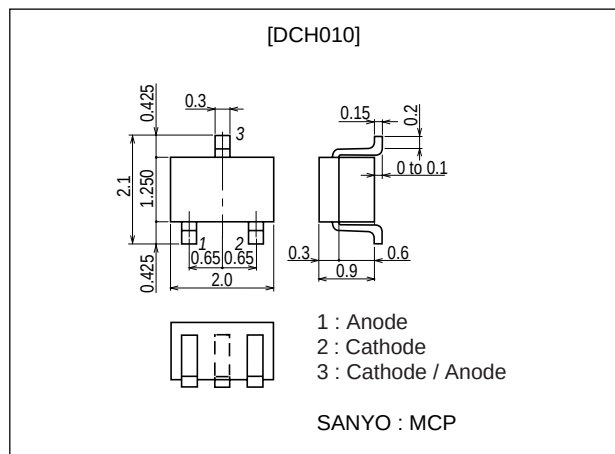


- 1 : Anode
2 : Cathode
3 : Cathode / Anode

Package Dimensions

unit : mm

1246A



Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

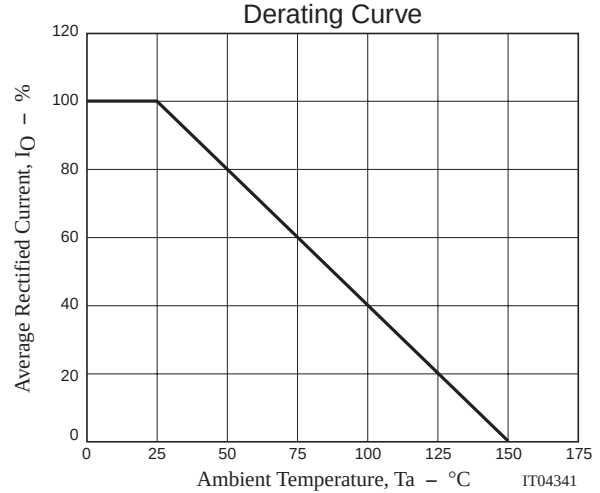
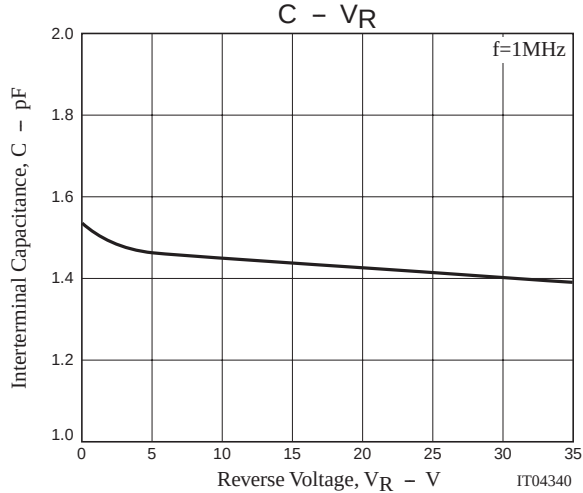
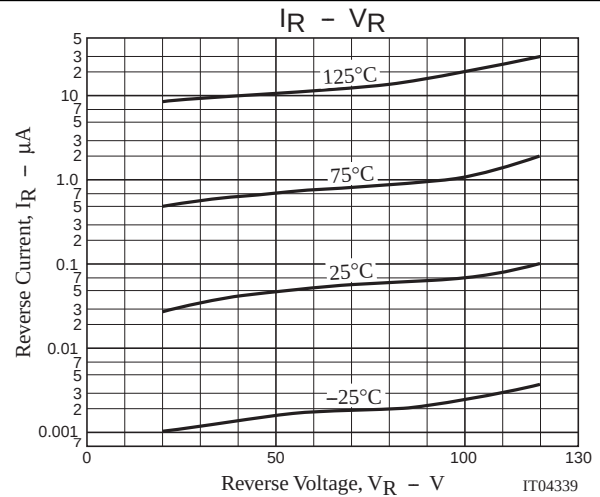
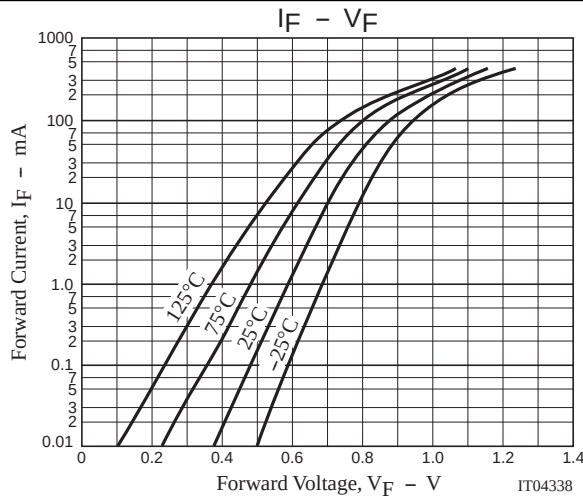
Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V_{RM}		80	V
Reverse Voltage	V_R		80	V
Peak Forward Current	I_{FM}		300	mA
Average Rectified Current	I_O		100	mA
Surge Forward Current(1 μ s)	I_{surge}		4	A
Allowable Power Dissipation	P(Total Value)		200	mW
Junction Temperature	T_J		150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	$I_F=100\text{mA}$			1.2	V
Reverse Current	I_R	$V_R=70\text{V}$			0.2	μA
Interterminal Capacitance	C	$f=1\text{MHz}$, $V_R=6\text{V}$			3.5	pF
Reverse Recovery Time	t_{rr}	$I_F=5\text{mA}$, $V_R=6\text{V}$, $R_L=50\Omega$, $I_{rr}=0.1\text{Irp}$			4.0	ns

Marking : A7

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