

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SANYO Semiconductors DATA SHEET

DCB010 — Silicon Epitaxial Planar Type (Cathode Common) 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.

Specifications

Absolute Maximum Ratings at Tc=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Peak Reverse Voltage	V _{RM}		85	V
Reverse Voltage	VR		80	V
Deals Ferrand Comment	IFM		300	mA
Peak Forward Current	I _{FM} *		450	mA
Average Rectified Current	Io		100	mA
	IO*		150	mA
O O	IFSM		4	Α
Surge Current (1μs)	IFSM*		6	Α
Allowable Power Dissipation	Р		200	mW
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

^{* :} Total value

Electrical Characteristics at Tc=25°C

Davameter	Cumbal	Conditions	Ratings			Unit
Parameter	Symbol		min	typ	max	Unit
Forward Voltage	VF1	IF=1mA		0.60		V
	V _{F2}	IF=10mA		0.72		V
	VF3	IF=100mA			1.20	V
Reverse Current	I _{R1}	V _R =30V			0.1	μΑ
	l _{B2}	Vp=80V			0.5	uА

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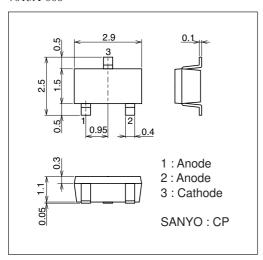
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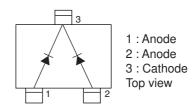
	Parameter	Symbol	Conditions	Ratings			Unit
				min	typ	max	Offic
	Interterminal Capacitance	С	V _R =0V, f=1MHz			3.0	pF
	Reverse Recovery Time	trr	I _F =10mA, $V_{R}=6V$, $R_{I}=50\Omega$, $I_{rr}=0.11rp$			4.0	ns

Package Dimensions

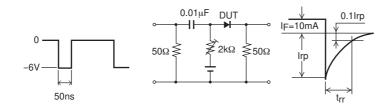
unit : mm (typ) 7013A-006

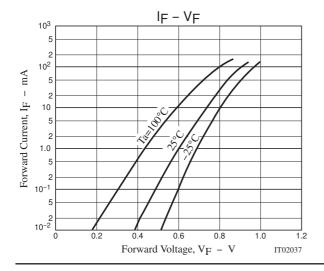


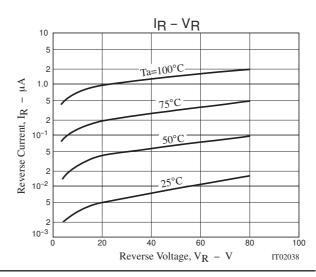
Electrical Connection



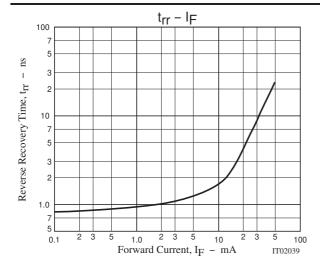
Reverse Recovery Time Test Circuit

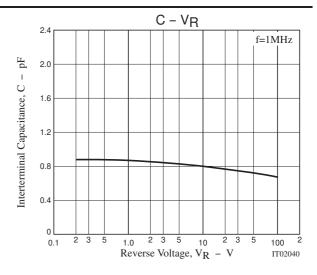






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