DCA010

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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 Ta=25°C

Parameter	Symbol	Conditions	Raitings	Unit
Peak Reverse Voltage	V _{RM}		85	V
Reverse Voltage	VR		80	V
Peak Forward Current		Unit rating	300	mA
	IFM	Total rating	450	mA
Average Rectified Current		Unit rating	100	mA
	IO	Total rating	150	mA
Surge Current(1µs)		Unit rating	4	А
	IFSM	Total rating	6	А
Allowable Power Dissipation	Р		200	mW
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55to +150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

Electrical Characteristics at Ta=25°C

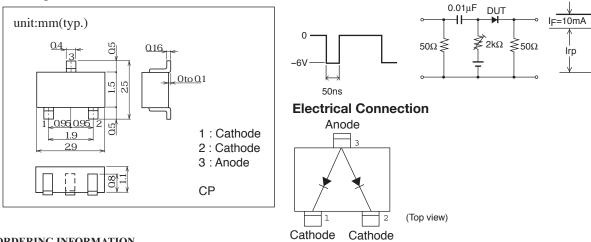
Parameter	Symbol	Conditions	Raitings			Unit
			min	typ	max	Unit
Forward Voltage	V _{F1}	IF=1mA		0.61		V
	V _{F2}	IF=10mA		0.74		V
	V _{F3}	IF=100mA			1.20	V
Reverse Current	IR1	V _R =30V			0.1	μΑ
	I _{R2}	V _R =80V			0.5	μΑ
Interterminal Capacitance	С	V _R =0V, f=1MHz			4.0	pF
Reverse Recovery Time	t _{rr}	I _F =10mA, V _R =6V, R _L =50Ω, I _{rr} =0.1Irp			4.0	ns

Marking:W5

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Reverse Recovery Time Test Circuit

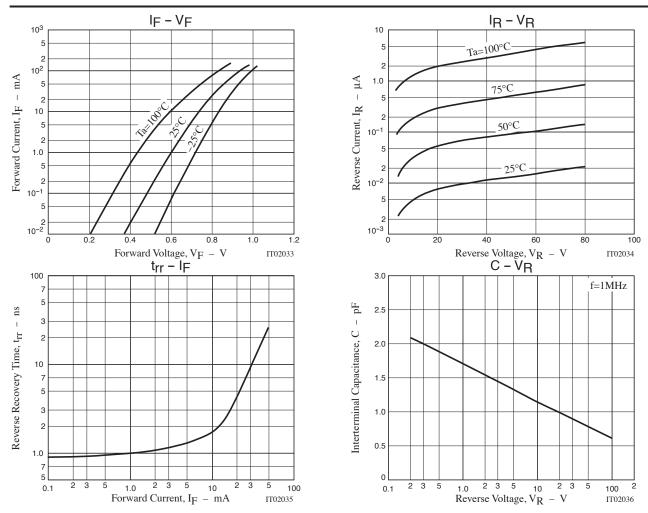
Package Dimensions



ORDERING INFORMATION

See detailed ordering and shipping information on page 2 of this data sheet.

0.1 lrp



ORDERING INFORMATION

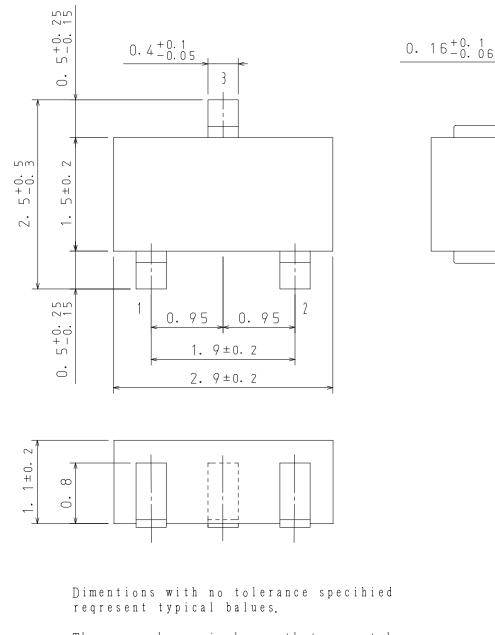
Device	Package	Shipping	memo
DCA010-TB-E	CP	3,000 pcs. / reel	Pb-Free

 $0 \sim 0.1$

Package Dimensions

SC-59 / CP CASE 318AN ISSUE O

unit : mm



There may be resin burrs that cannot be seen apparently from the drawing.

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