DCA010

ON Semiconductor® www.onsemi.com

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

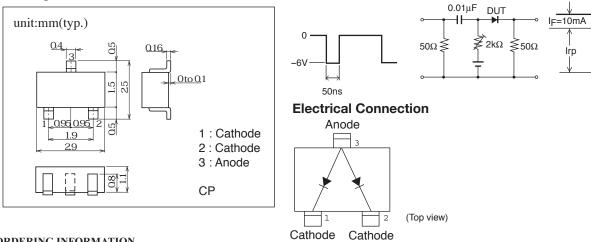
Parameter	Symbol	Conditions	Raitings			Unit
			min	typ	max	Unit
Forward Voltage	V _{F1}	IF=1mA		0.61		V
	V _{F2}	IF=10mA		0.74		V
	V _{F3}	IF=100mA			1.20	V
Reverse Current	IR1	V _R =30V			0.1	μΑ
	I _{R2}	V _R =80V			0.5	μΑ
Interterminal Capacitance	С	V _R =0V, f=1MHz			4.0	pF
Reverse Recovery Time	t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

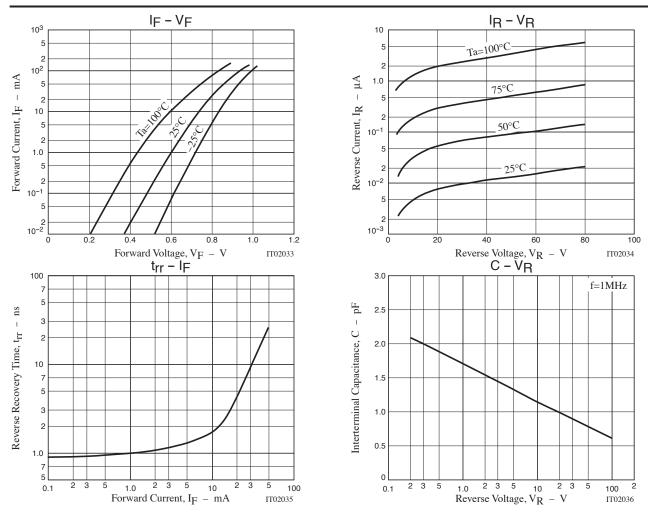
Package Dimensions



ORDERING INFORMATION

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

0.1 lrp



ORDERING INFORMATION

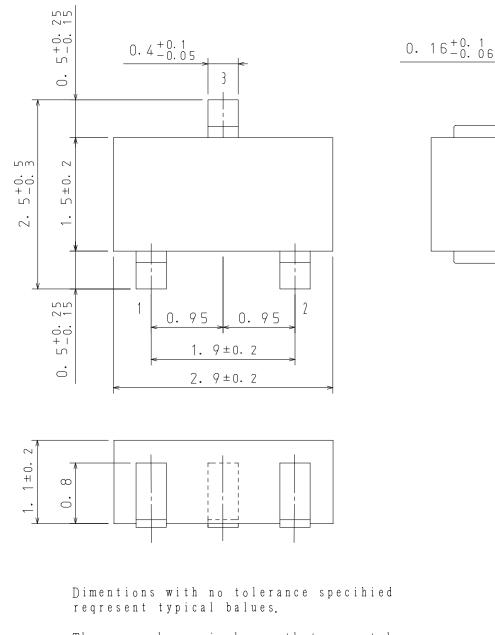
Device	Package	Shipping	memo
DCA010-TB-E	CP	3,000 pcs. / reel	Pb-Free

 $0 \sim 0.1$

Package Dimensions

SC-59 / CP CASE 318AN ISSUE O

unit : mm



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

ON Semiconductor and the ON logo are registered trademarks of Semiconductor Components Industries, LLC (SCILLC) or its subsidiaries in the United States and/or other countries. SCILLC owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of SCILLC's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf . SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typical" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent re