

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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SB3003CH



www.onsemi.com

Schottky Barrier Diode 30V, 3A, Low IR, Single

Applications

· High frequency rectification (switching regulators, converters, choppers)

Features

- · Small switching noise
- · Low leakage current and high reliability due to highly reliable planar structure
- · Ultrasmall package permitting applied sets to be small and slim (Mounting height 0.9mm)
- · Halogen free compliance : SB3003CH-TL-W

Specifications

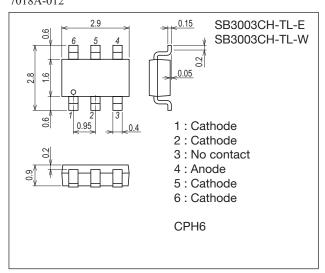
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	IO		3.0	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°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.

Package Dimensions

unit : mm (typ) 7018A-012



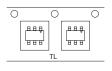
Product & Package Information

• Package : CPH6

• JEITA, JEDEC : SC-74, SOT-26, SOT-457

• Minimum Packing Quantity : 3,000 pcs./reel

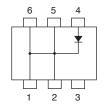
Packing Type: TL



Marking



Electrical Connection



ORDERING INFORMATION

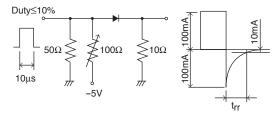
See detailed ordering and shipping information on page 2 of this data sheet.

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Offic
Reverse Voltage	VR	I _R =0.5mA	30			V
Forward Voltage	V _F 1	IF=2.0A		0.435	0.485	V
	V _F 2	I _F =3.0A		0.47	0.52	V
Reverse Current	IR	V _R =15V			42	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		90		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.			20	ns
Thermal Resistance	Rth(j-a)	When mounted on ceramic substrate (900mm ² ×0.8mm)		50		°C/W

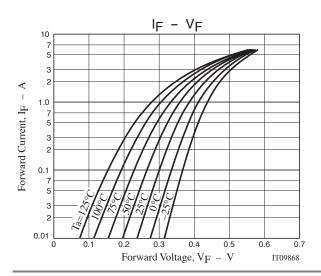
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

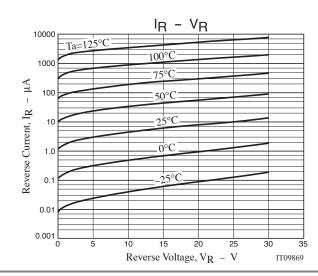
trr Test Cicuit



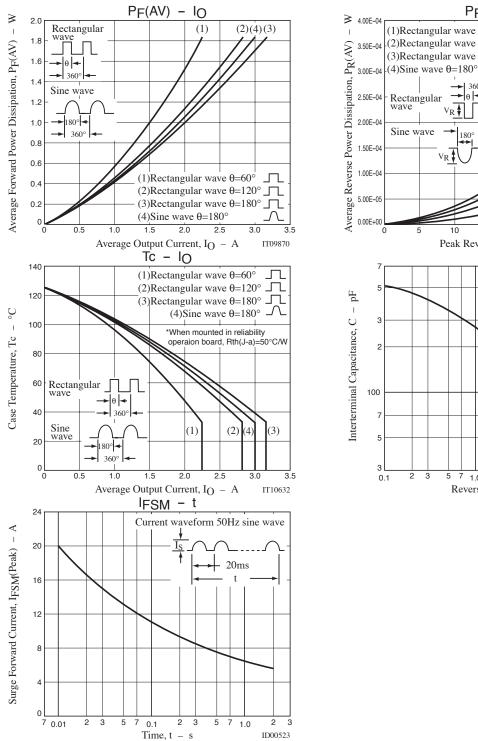
ORDERING INFORMATION

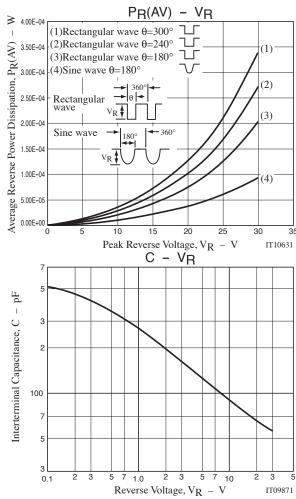
Device	Package	Shipping	memo	
SB3003CH-TL-E	CPH6	2.000maa /raal	Pb-Free	
SB3003CH-TL-W	СРН6	3,000pcs./reel	Pb-Free and Halogen Free	





SB3003CH



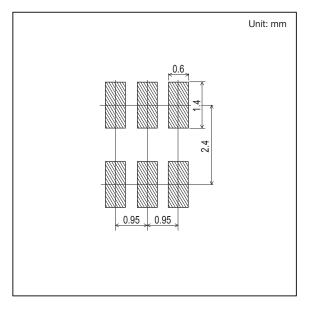


Outline Drawing

SB3003CH-TL-E, SB3003CH-TL-W

Mass (g) Unit 0.015 mm 0. 15+0. 1 2. 9±0. 1), 6±0.1 2±0.1 *1 | *1 0. 05±0.05 . 8±0. 15 6±0. *1 0. 95 PIN#1 0.05 \$ *1:Lot indication

Land Pattern Example



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