SB3003CH

Schottky Barrier Diode 30V, 3A, Low IR, Single CPH6



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)

Specifications

Absolute Maximum Ratings at Ta=25°C

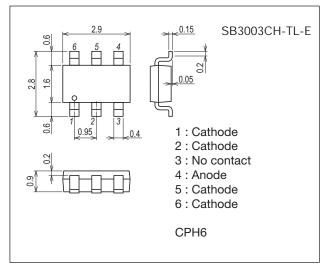
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	IO		3.0	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	А
Junction Temperature	Тј		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125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

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ)

7018A-012

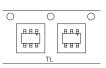


Product & Package Information

- : CPH6
- JEITA, JEDEC
- : SC-74, SOT-26, SOT-457 • Minimum Packing Quantity : 3,000 pcs./reel

Packing Type: TL

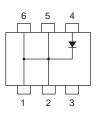
• Package



Marking



Electrical Connection

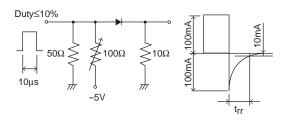




Electrical Characteristics at Ta=25°C

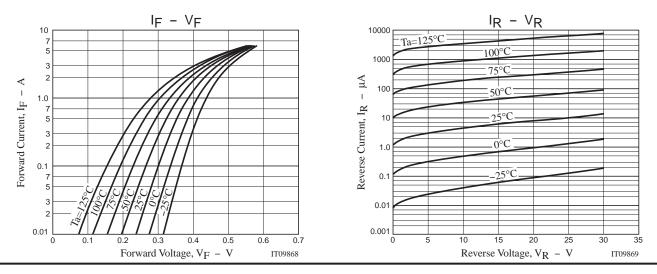
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Unit
Reverse Voltage	VR	IR=0.5mA	30			V
Forward Voltage	V _F 1	IF=2.0A		0.435	0.485	V
	V _F 2	IF=3.0A		0.47	0.52	V
Reverse Current	IR	V _R =15V			42	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		90		рF
Reverse Recovery Time	t _{rr}	IF=IR=100mA,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

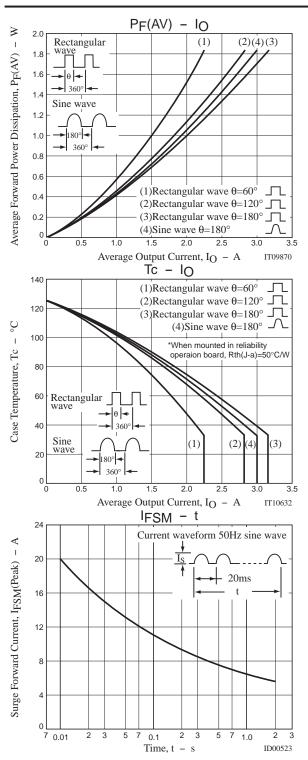
trr Test Cicuit

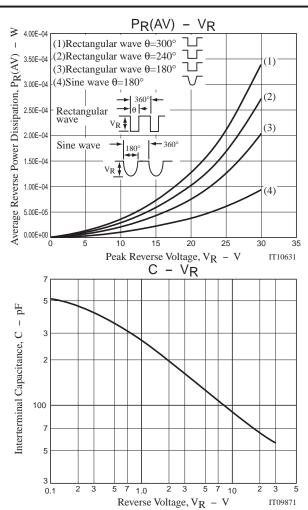


Ordering Information

Device	Package	Shipping	memo
SB3003CH-TL-E	CPH6	3,000pcs./reel	Pb Free







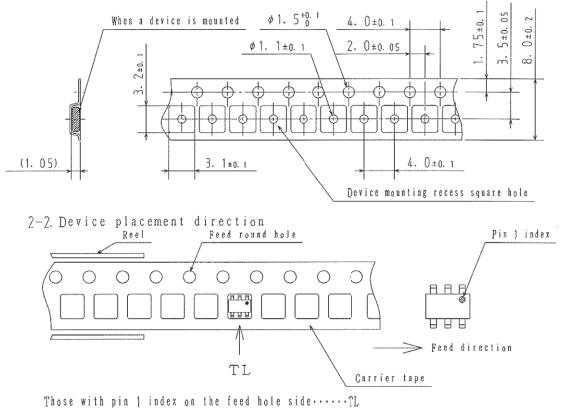
Embossed Taping Specification SB3003CH-TL-E

1. Packing Format

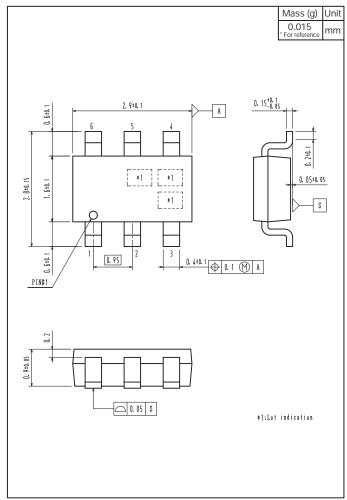
Package Name	Carrier Tape	Tape <u>Maxim</u> devices		er of ied (pcs)	Packing format		
	Type	Reel	Inner box	Quter box	Inner BOX (C-1) Outer BOX (A-7)		
CPH6	CPH6	3, 000	15,000	90,000	5 reels contained 6 inner boxes containe		
					Dimensions:mm (external) Dimensions:mm (external		
					183×72×185 440×195×210		
Reel label, Inner box labelOuter box labelPacking method(unit:mm)It is a label at the time of factory The form of a label may change in phy distribution process.							
	Type LOT Quan Orig	No. tity		ITYPE 0000 II (IIIII IIIIII) 51 LOT 00 II (IIIII IIIIIII) 20TY 0, 00 SPECIAL II (IIIII IIIIII) SPECIAL II (IIIII IIIII) SSEEMELY: ***** (6 9 1 0 8 0 0 0 0 0 0 TYPE CODE 111111111111111111111111111111111111		
	∖ Reel la	bel		eatment	REE & description shows that the surface of the terminal is lead free		
				Label LEAD FRI			
				LEAD FR			

2. Taping configuration

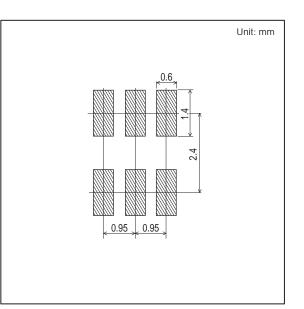
2-1. Carrier tape size (unit:mm)



Outline Drawing SB3003CH-TL-E



Land Pattern Example



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