imall

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SB80W06T

Schottky Barrier Diode 60V, 8A, Low IR, Monolithic Dual TP Common Cathode

Applications

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

Features

- Low forward voltage (VF max=0.6V)
- Fast reverse recovery time
- High reliability due to highly reliable planar structure

Low switching noise Halogen free compliance

Specifications

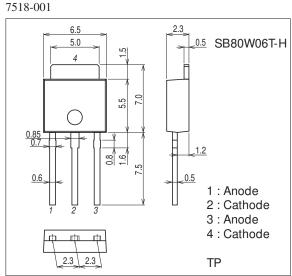
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		60	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		66	V
			Continued on	next page.

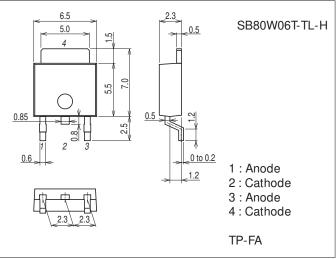
Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ)



ded Operating Conditions may affect **Package Dimensions** unit : mm (typ) 7003-002



Product & Package Information

- Package : TP
- JEITA, JEDEC : SC-64, TO-251, SOT-553, DPAK
- Minimum Packing Quantity : 500 pcs./bag

Marking (TP, TP-FA)



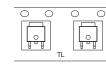
• Package : TP-FA

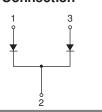
• JEITA, JEDEC : SC-63, TO-252, SOT-428, DPAK

Minimum Packing Quantity : 700 pcs./reel

Packing Type (TP-FA) : TL

Electrical Connection







Continued from preceding page.

Parameter	Symbol	Conditions	Ratings	Unit
Average Output Ourrent	I0*2	50Hz resistive load, sine wave Tc=130°C	4	А
Average Output Current	I0*1	50Hz resistive load, sine wave Tc=83°C	8	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	40	А
Junction Temperature	Тј		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Note) *1. Indicates the total value

*2. Value per element

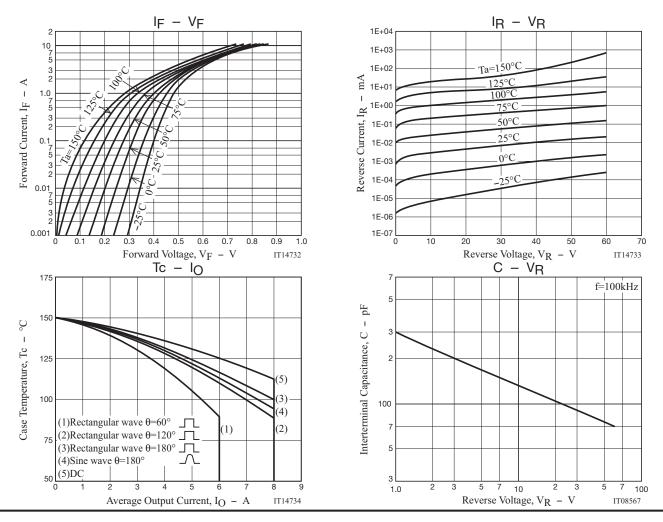
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit	
Faranieler	Symbol	Conditions		typ	max		
Reverse Voltage	VR	IR=1mA, Tj=25°C *2	60			V	
Forward Voltage	VF	IF=3.0A, Tj=25°C *2			0.6	V	
Reverse Current	IR	V _R =30V, Tj=25°C *2			0.1	mA	
Interterminal Capacitance	С	V _R =10V, Tj=25°C *2		130		pF	
Transient Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC		6		°C / W	

Note) *2. Value per element

Ordering Information

Device	Package	Shipping	memo
SB80W06T-H	TP	500pcs./bag	Ph Free and Hologon Free
SB80W06T-TL-H	TP-FA	700pcs./reel	Pb Free and Halogen Free



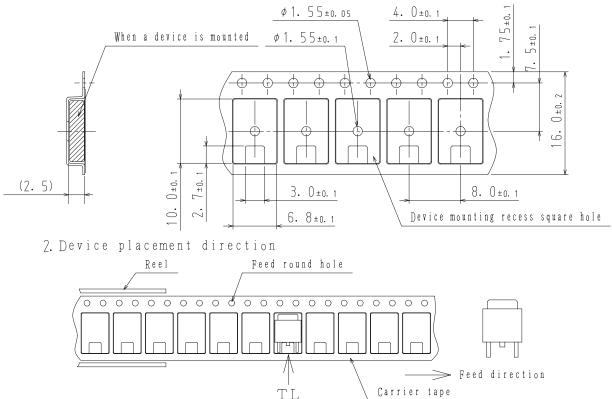
Taping SpecificationSB80W06T-TL-H

Packing Format

Package Name	Carrier Tape	Tape Maximum Nu devices cont			Packing format
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1) Outer BOX (A-7)
TP-FA	ΤP	700	2, 100	12,600	3 reels contained 6 inner boxes contained
					Dimensions:mm (external) Dimensions:mm (external)
					183×72×185 440×195×210
Packing met	Type LOT	No. tity in	-> (P) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	(U 1 TYPE 000C TYPE 000C DTOT 00 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Inner box label Outer box label n it:mm) Outer box label It is a label at the time of factory shipments, The form of a label may change in physical distribution process, 69 108 0000000 It is a label at the time of factory shipments, The form of a label may change in physical distribution process, 69 108 000000 It is a label may change in physical distribution process, 000000 It is a label may change in physical distribution process, 000000 It is a label may change in physical distribution process, 000000 It is a label may change in physical distribution process, 000000 It is a label may change in physical distribution process, 000000 It is a label may change in physical distribution process, 0000000 It is a label may change in physical distribution process, 0000000 It is a label may change in physical distribution process, 0000000 It is a label may change in physical distribution process, 0000000 It is a label may change in physical distribution process, 0000000 It is a label may change in physical distribution process, 0000000 It is a label may change in physical distribution process, 00000000 It is label may chang

Taping configuration

1. Carrier tape size (unit:mm)

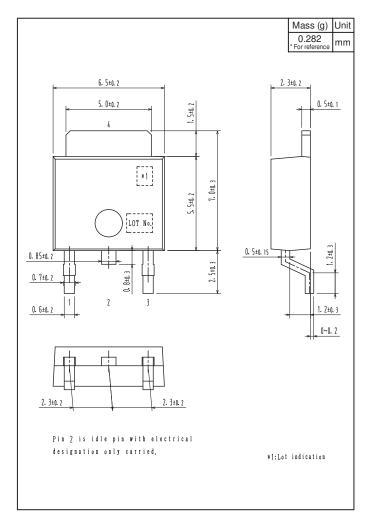


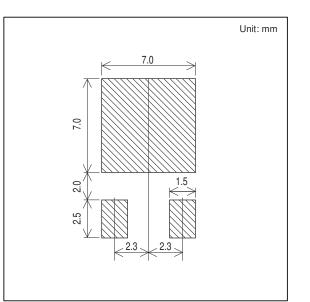
Those with one electrode terminal on the feed hole side TL

No. A1505-3/7

Outline Drawing SB80W06T-TL-H







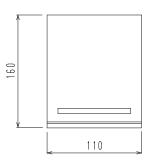
Bag Packing Specification SB80W06T-H

<u>1. Packing Format</u>

Package Name		Maximum Numbe	r of devices cont	ained (pcs)	
I GOUGSO HUMO	Bag	Inner box	Outer box		
ΤP		B-1	A-1	A-2	
	500	10,000	50,000	30,000	
		Packing format (Dimensions:mm (external))			
		Inner box	Outer	b o x	
-		B-1	A-1	A-2	
		4 4 5 × 2 2 5 × 5 5	470×250×300	470×250×190	

<u>2. Bag dimensions</u>





<u>4. Outer box label</u>

(unit:mm)

It is a label at the time of factory shipments, The form of a label may change in physical distribution process.

3. Bag	label, [nner	b o x	label
	(unit:mm)		

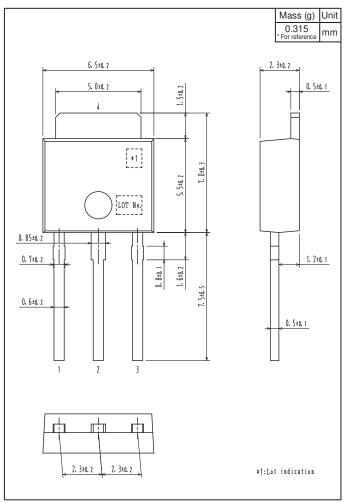
	L 69	
Type No. →	(P) TYPE 00000000	
LOT No>		
Quantity —>	(Q) QTY O, OOO (1) LEAD FREE *	4 J
Origin ->	(Z) SPECIAL 	V

NOTE (1) The LEAD FREE * description shows that the surface treatment of the terminal is lead free.

Label			JEITA Phase
LEAD	FREE	3	JEITA Phase 3A
LEAD	FREE	4	JEITA Phase 3

	TYPE CODE	*0000000000000*
	TYPE	000000000
80	QTY	0, 000 pcs (1) Lead free #
	LOT	00000000
	PACKAGE	00000000
	SPECIAL ASSEMBLY:	*Z0722005310C* **** (DIFFUSION:****)
		108
Γ	•	-

Outline Drawing SB80W06T-H



ON Semiconductor and the ON logo are registered trademarks of Semiconductor Components Industries, LLC (SCILLC). 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 death associated with such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent regarding the design or manufacture of the part. SCILLC is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.