SB80W10T

Schottky Barrier Diode 100V, 8A, Low IR, Monolithic Dual TP Common Cathode



Features

• VF max=0.8V

• IR max=0.1mA

• Halogen free compliance

Specifications

Absolute Maximum Ratings at Ta=25°C

5				
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		100	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		105	V
August Outsuit Current	I _O *1	50Hz resistive load, sine wave Tc=62°C	8	А
Average Output Current	I0*2	50Hz resistive load, sine wave Tc=121°C	4	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	40	Α
Junction Temperature	Тј		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Note) *1. Indicates the total value

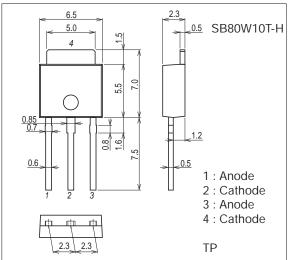
*2. Value per element

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

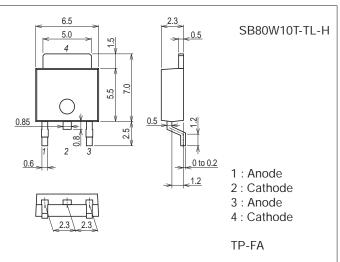
unit : mm (typ)





Package Dimensions unit : mm (typ)

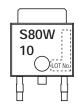
7003-002



Product & Package Information

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

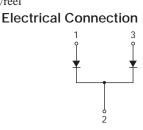




Package : TP-FA

- JEITA, JEDEC : SC-63, TO-252
- Minimum Packing Quantity : 700 pcs./reel

Packing Type (TP-FA) : TL



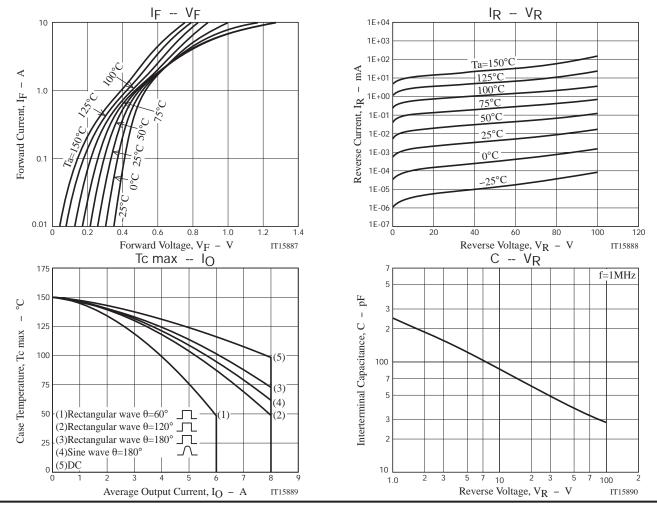
Electrical Characteristics at Ta=25°C

Parameter	Symbol Conditions	Ratings			Unit	
Faianietei	Symbol	Conditions	min	typ	max	Unit
Reverse Voltage	VR	IR=1mA, Tj=25°C *2	100			V
Forward Voltage	VF	I _F =3.0A, Tj=25°C *2			0.8	V
Reverse Current	IR	V _R =50V, Tj=25°C *2			0.1	mA
Interterminal Capacitance	С	V _R =10V, Tj=25°C *2		90		рF
Transient Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC		6		°C/W

Note) *2. Value per element

Ordering Information

3			
Device	Package	Shipping	memo
SB80W10T-H	TP	500pcs./bag	Dh Free and Helegen Free
SB80W10T-TL-H	TP-FA	700pcs./reel	Pb Free and Halogen Free



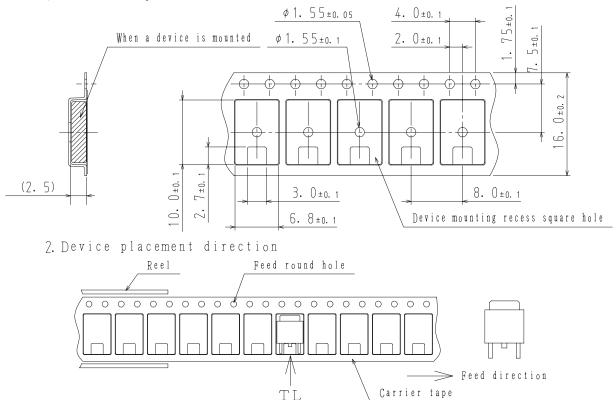
Taping Specification SB80W10T-TL-H

Packing Format

Package Name	Carrier Tape		mum Numbe s contain		Packing format
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1) Outer BOX (A-7)
TP-FA	ТΡ	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	-> (1' -> (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	(U 1 TYPE 00000 TYPE 00000 11111111111111111111111111111111	Inner box label Outer box label n i t :mm) It is a label at the time of factory shipments. 6 9 108 000000 TYPE CODE IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
				Label	
				LEAD FRE	EE 3 JEITA Phase 3A
				LEAD FRI	EE 4 JEITA Phase 3

Taping configuration

1. Carrier tape size (unit:mm)



Those with one electrode terminal on the feed hole side TL

Land Pattern Example

Outline Drawing SB80W10T-TL-H

Mass (g) Unit Unit: mm 0.282 * For reference mm 7.0 K 6. 5±0. 2 2. 3±0. 2 5. O±0. 2 1. 5±0. 2 0. 5±0. 1 4 7.0 [*1] 2.0 15 7. 0±0. 3 5. 5±0. 2 LOT No. 2.5 2.3 1. 2±0. 3 2.3 0. 5±0. 15 0. 85±0. 2 16 2. 5±0. 3 ï 0. 8±0. 3 0. 7±0.2 T. 2 3 0. 6±0. 2 1. 2±0. 3 0~0. 2 r+1 2. 3±0. 2 2. 3±0. 2 Pin 2 is idle pin with electrical designation only carried. *1:Lot indication

No. A1817-4/7

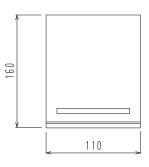
Bag Packing Specification SB80W10T-H

<u>1. Packing Format</u>

Package Name		Maximum Number of devices contained (pcs)			
Taona So Hamo	Bag	Inner box	() uter box		
TP		B-1	A-1	A-2	
	500	10,000	50,000	30,000	
		Packing fo	rmat (Dimensions:m	m (external))	
		Inner box	Outer	b o x	
		B-1	A-1	A-2	
4 4 5 × 2 2 5 ×		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)		

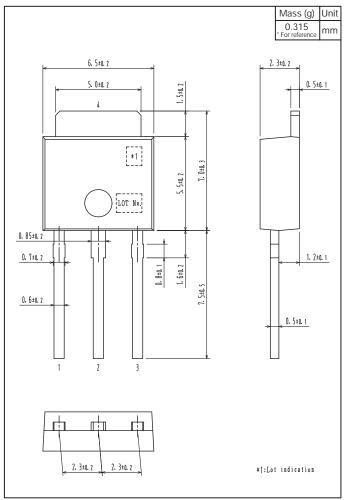
	69	
Type No. →		
LOT No>	(17) LOT OO	
Quantity —>	(Q) QTY O, OOO (1) 	4 3
Origin ->	(Z) \$PECIAL 	V

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	*00000000000000*
	TYPE	000000000
0	QTY	0, 000 pcs (1) Lead free #
ω	LOT	00000000
	PACKAGE	00000000
	SPECIAL ASSEMBLY:	*Z0722005310C* **** (DIFFUSION:****)
		108
Γ		-

Outline Drawing SB80W10T-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 indemify 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 regarding the design or manufacture of the part. SCILLC is an Equal

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Onsemi: SB80W10T-H SB80W10T-TL-H