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	VRSM		105	V
	I _O *1	50Hz resistive load, sine wave Tc=62°C	8	А
Average Output Current	IO*2	50Hz resistive load, sine wave Tc=121°C	4	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

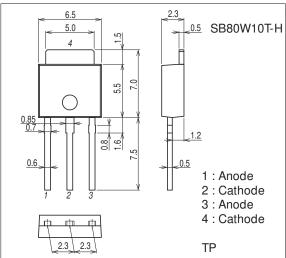
*2. Value per element

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

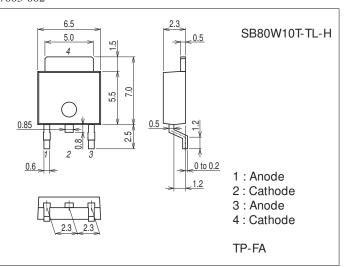
unit : mm (typ)





Package Dimensions unit : mm (typ)

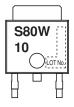
7003-002



Product & Package Information

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

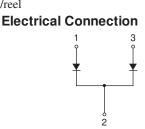




• Package : TP-FA

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





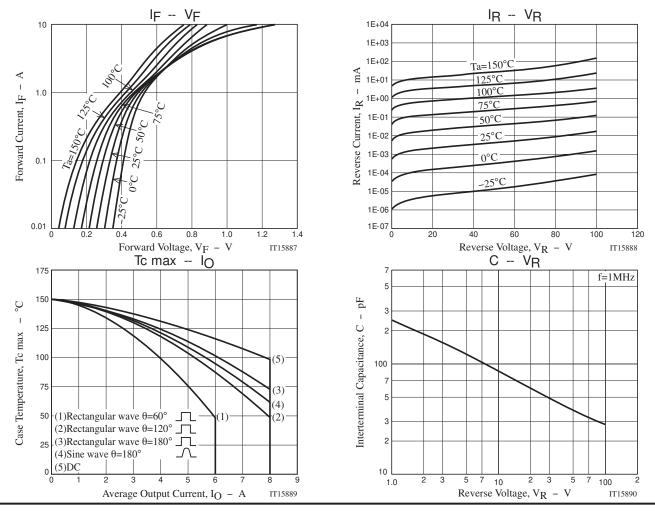
Electrical Characteristics at Ta=25°C

Parameter	Symbol Conditions	Ratings			Unit	
Faranieter	Symbol	Conditions		typ	max	Unit
Reverse Voltage	VR	IR=1mA, Tj=25°C *2	100			V
Forward Voltage	VF	IF=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		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	
SB80W10T-H	TP	500pcs./bag	Dh Free and Helegen Free	
SB80W10T-TL-H	TP-FA	700pcs./reel	Pb Free and Halogen Free	



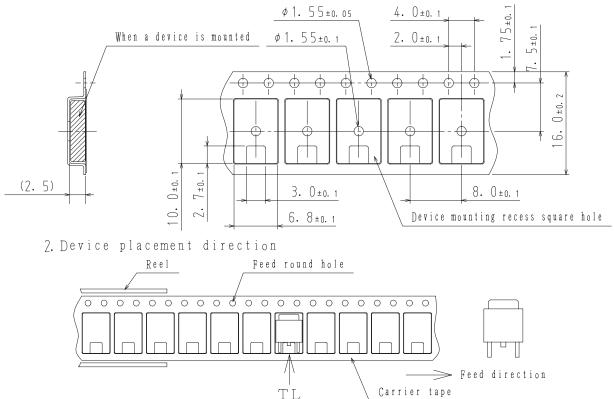
Taping Specification SB80W10T-TL-H

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 method					Inner box label Outer box label n i t :mm) It is a label at the time of factory shipments. 69 It is a label may change in physical distribution process. 0000000 It is complete the second mathematical distribution process.
	LOT	No. tity		F) LOT OO II IIIIII IIIIIII QTY O, OO II IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
	Reel la	abel		e LEAD FI	EE 3 JEITA Phase 3A

Taping configuration

1. Carrier tape size (unit:mm)



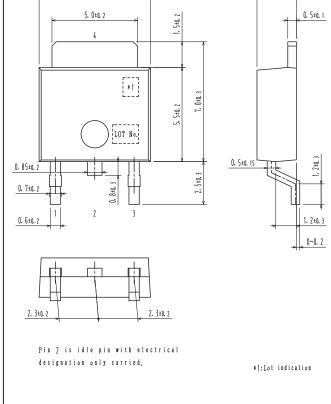
Those with one electrode terminal on the feed hole side TL

Outline Drawing SB80W10T-TL-H

6. 5±0. 2

Mass (g) Unit 0.282 *For reference mm Unit: mm 7.0 K 2. 3±0. 2 1. 5±0. 2 0. 5±0. 1 7.0 [*1] 2.0 15 7. 0±0. 3 5. 5±0. 2 2.5 2.3 2.3 0. 5±0. 15

Land Pattern Example



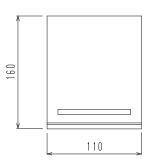
Bag Packing Specification SB80W10T-H

<u>1. Packing Format</u>

Package Name		Maximum Numbe	r of devices cont	ained (pcs)	
Bag		Inner box	Outer 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 × 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, Inner	bох	label
	(unit:mm)		

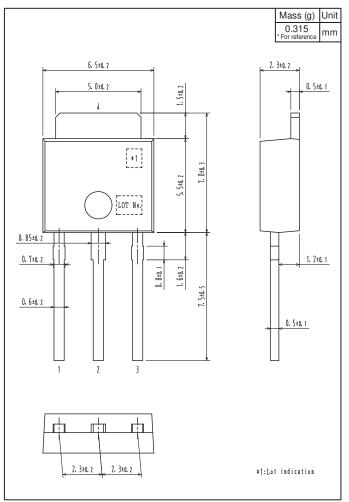
	L 69	
Type No. →	(P) TYPE 000000000 	
LOT No. \rightarrow	(17) LOT OO	
Quantity —>	(Q) QTY O, OOO (1) 	4 3
Origin ->	(2) SPECIAL 	V

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

Outline Drawing SB80W10T-H



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