SB80W10T

ON Semiconductor®

Schottky Barrier Diode

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

http://onsemi.com

Features

· VF max=0.8V

• IR max=0.1mA

· Halogen free compliance

Specifications

Absolute Maximum Ratings at Ta=25°C

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

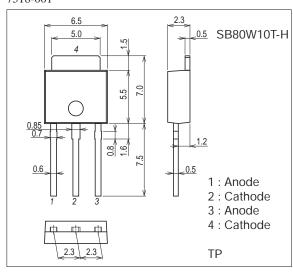
Note) *1. Indicates the total value

*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.

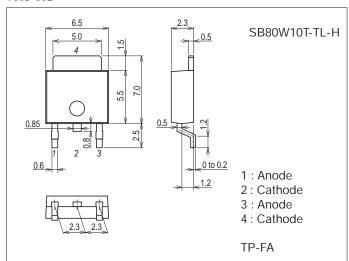
Package Dimensions

unit : mm (typ) 7518-001



Package Dimensions

unit : mm (typ) 7003-002



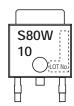
Product & Package Information

• Package: TP

• JEITA, JEDEC: SC-64, TO-251

• Minimum Packing Quantity : 500 pcs./bag

Marking (TP, TP-FA)

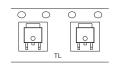


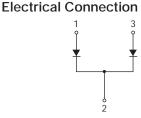
• Package: TP-FA

• JEITA, JEDEC: SC-63, TO-252

• Minimum Packing Quantity: 700 pcs./reel

Packing Type (TP-FA): TL





SB80W10T

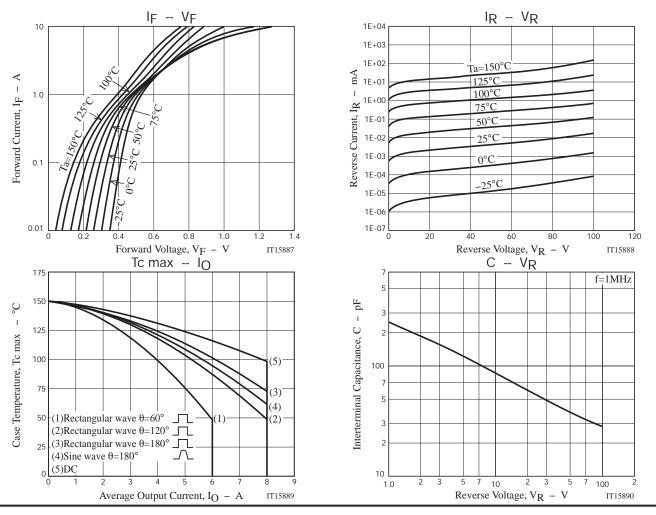
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
Parameter	Symbol		min	typ	max	Onit
Reverse Voltage	VR	I _R =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		pF
Transient Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC		6		°C / W

Note) *2. Value per element

Ordering Information

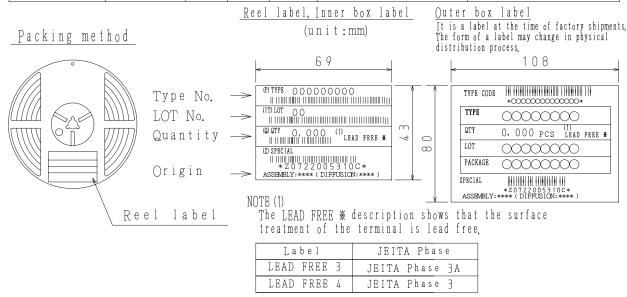
Device	Package	Shipping	memo
SB80W10T-H	TP	500pcs./bag	Db Free and Helegen Free
SB80W10T-TL-H	TP-FA	700pcs./reel	Pb Free and Halogen Free



Taping Specification SB80W10T-TL-H

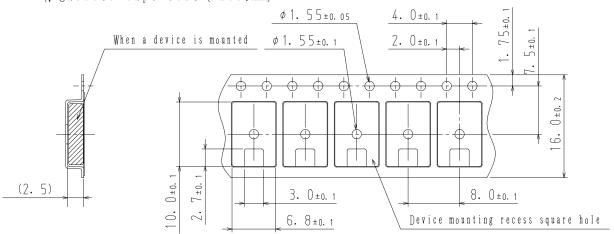
Packing Format

Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing	format
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer $BOX(A-7)$
TP-FA	TP	700	2, 100	12, 600	3 reels contained	6 inner boxes contained
					Dimensions:mm (external)	Dimensions:mm (external)
					183×72×185	440×195×210

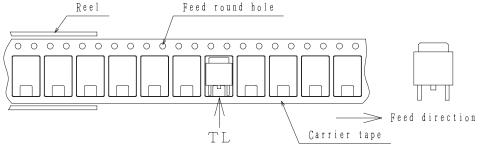


Taping configuration

1. Carrier tape size (unit:mm)



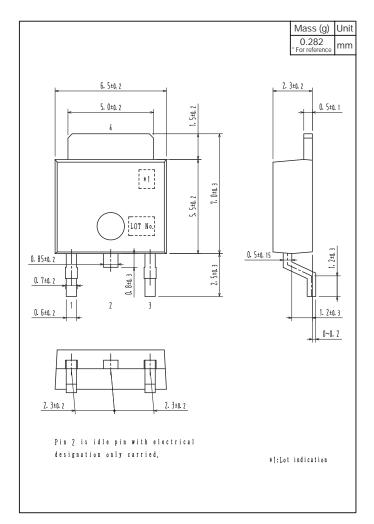
7. Device placement direction

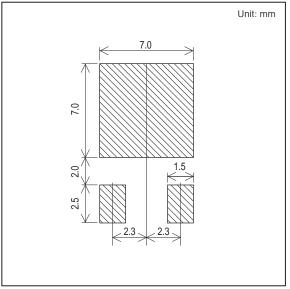


Those with one electrode terminal on the feed hole side · · · · · TL

Outline Drawing SB80W10T-TL-H

Land Pattern Example



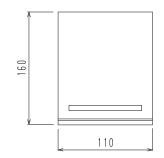


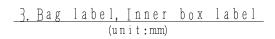
Bag Packing Specification SB80W10T-H

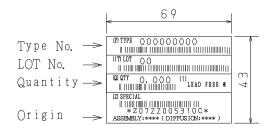
1. Packing Format

Package Name		Maximum Numbe	r of devices cont	ained (pcs)		
I don'd go Ivamo	Bag Inner box		Outer box			
TD		B-1	A-1	A-2		
TP 500		10,000	10,000 50,000			
		Packing format (Dimensions:mm (external))				
		Inner box	Outer	bох		
		B-1	A-1	A-2		
		445×225×55	470×250×300	470×250×190		

2. Bag dimensions (unit:mm)







4. Outer box label (unit:mm)

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

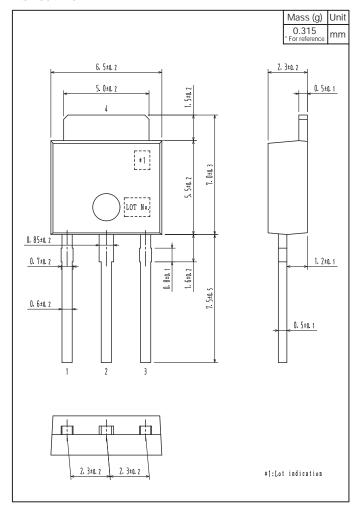


	La	b e l		JEITA Phase
	LEAD	FREE	3	JEITA Phase 3A
Ī	LEAD	FREE	4	JEITA Phase 3

	TYPE CODE ************************************
	TYPE COCCOCC
	QTY 0, 000 PCS LEAD FREE #
∞	LOT COCCOCCOCC
	PACKAGE OOOOOO
	\$PECIAL
	108

Outline Drawing

SB80W10T-H



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