

# SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

SBS811 — Schottky Barrier Diode 30V, 2.0A Rectifier

# **Applications**

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

## **Features**

- · Small Switching noise
- Low forward voltage (IF=2A, VF max=0.40V)

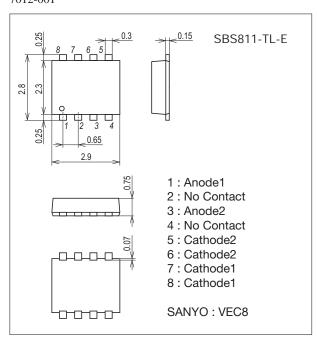
## **Specifications**

## 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		30	V
Average Output Current	IO		2.0	А
Surge Forward Current	I <sub>FSM</sub>	50Hz sine wave, 1 cycle	10	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

## **Package Dimensions**

unit : mm (typ) 7012-001



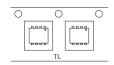
## **Product & Package Information**

• Package : VEC8

• JEITA, JEDEC :-

• Minimum Packing Quantity : 3,000 pcs./reel

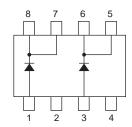
## Packing Type: TL



## Marking



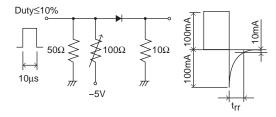
#### **Electrical Connection**



## Electrical Characteristics at Ta=25°C

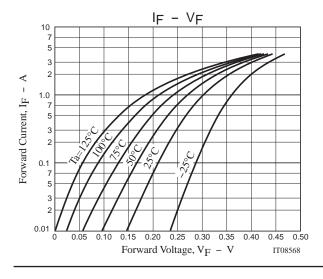
Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Uill
Reverse Voltage	VR	I <sub>R</sub> =2.0mA	30			V
Forward Voltage	VF	IF=1.0A		0.30	0.35	V
		IF=2.0A		0.35	0.40	V
Reverse Current	IR	V <sub>R</sub> =15V			1.25	mA
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		75		pF
Reverse Recovery Time	t <sub>rr</sub>	IF=IR=100mA, See specified Test Circuit.			20	ns
Thermal Resistance	Rth(j-a)1	When Mounted in Cu-foiled area of 1.92mm <sup>2</sup> ×0.03mm	75			°C / W
		on glass epoxy substrate		/5		C/W
	Rth(j-a)2	When mounted on ceramic substrate (1000mm <sup>2</sup> ×0.8mm)		70		°C / W

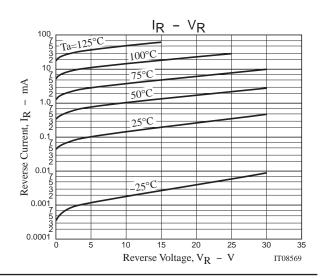
# trr Test Circuit

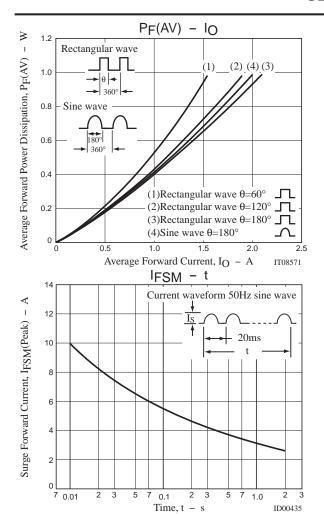


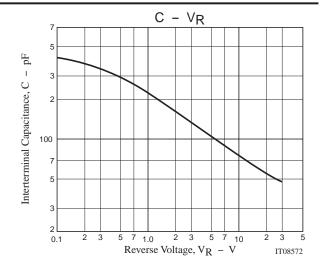
# **Ordering Information**

Device	Package	Shipping	memo	
SBS811-TL-E	BS811-TL-E VEC8		Pb Free	







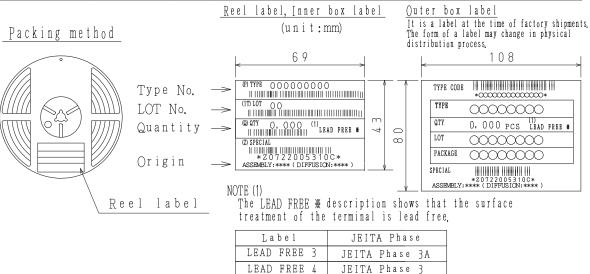


#### **Taping Specification**

#### SBS811-TL-E

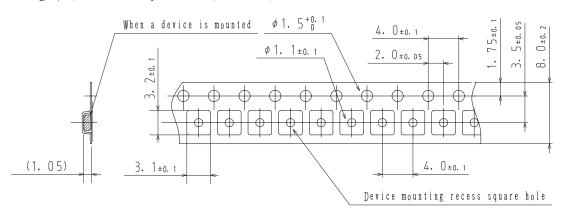
## 1. Packing Format

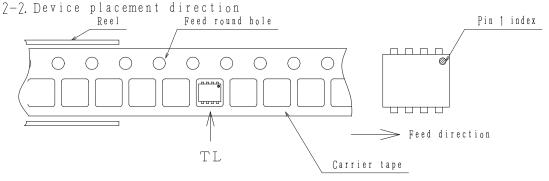
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing	g format		
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)		
VEC8	СРН6	3, 000	15, 000	90,000	5 reels contained	6 inner boxes contained		
					Dimensions:mm (external)	Dimensions:mm (external)		
					183×72×185	440×195×210		



## 2. Taping configuration

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

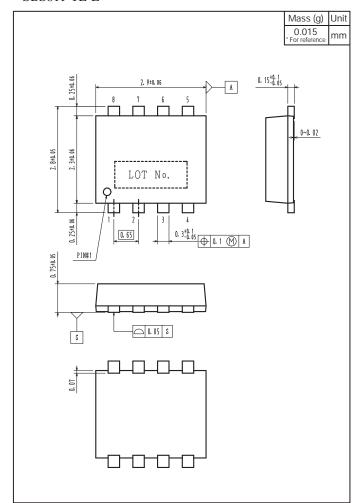




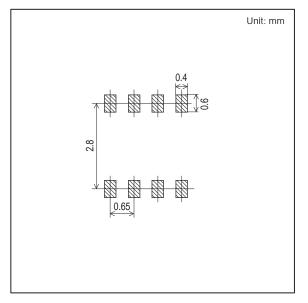
Those with oen electrode terminal on the feed hole side·····TL

# **Outline Drawing**

# SBS811-TL-E



# Land Pattern Example



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