# **SBS811**

# **Schottky Barrier Diode** 30V, 2A, Low VF, Non-Monolithic Dual VEC8 Common Cathode

# **Applications**

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

### **Features**

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

# **Specifications**

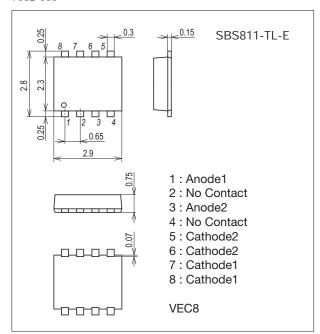
#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	V <sub>RSM</sub>		30	V
Average Output Current	IO		2.0	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	А
Junction Temperature	Тј		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

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) 7012-001

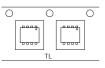


#### **Product & Package Information** : VEC8

- Package
- JEITA, JEDEC
- Minimum Packing Quantity : 3,000 pcs./reel

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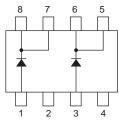
#### Packing Type : TL



# Marking



#### **Electrical Connection**

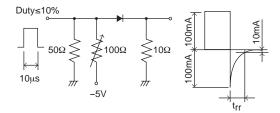


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#### Electrical Characteristics at Ta=25°C

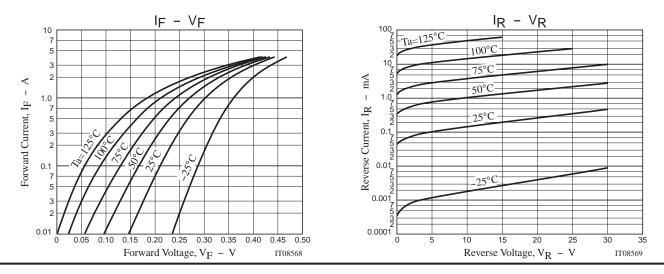
Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Unit
Reverse Voltage	VR	IR=2.0mA	30			V
Forward Voltage	VF	IF=1.0A		0.30	0.35	V
		IF=2.0A		0.35	0.40	V
Reverse Current	IR	V <sub>R</sub> =15V			1.25	mA
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		75		рF
Reverse Recovery Time	t <sub>rr</sub>	IF=IR=100mA, See specified Test Circuit.	R=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> x0.03mm	75			°C / W
		on glass epoxy substrate				
	Rth(j-a)2	When mounted on ceramic substrate (1000mm <sup>2</sup> ×0.8mm)		70		°C / W

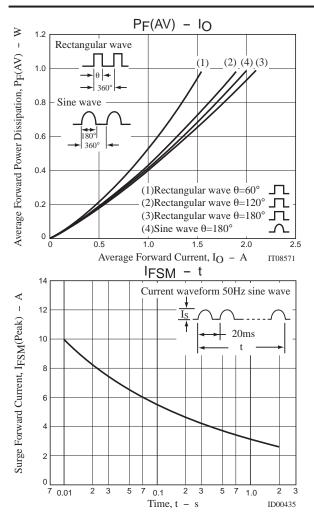
# trr Test Circuit

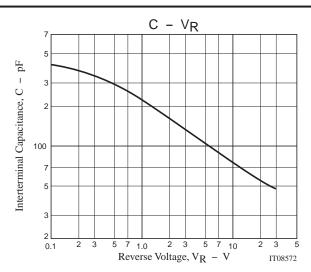


#### **Ordering Information**

Device	Package	Shipping	memo	
SBS811-TL-E	VEC8	3,000pcs./reel	Pb Free	

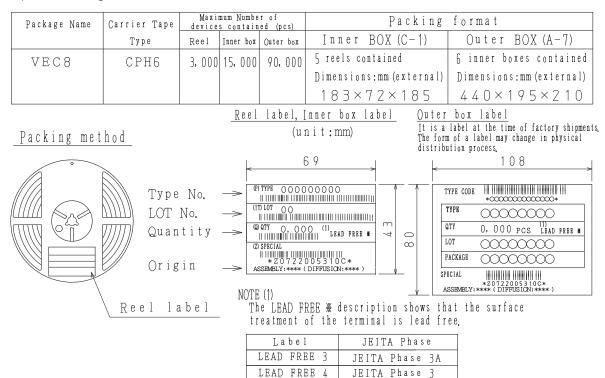






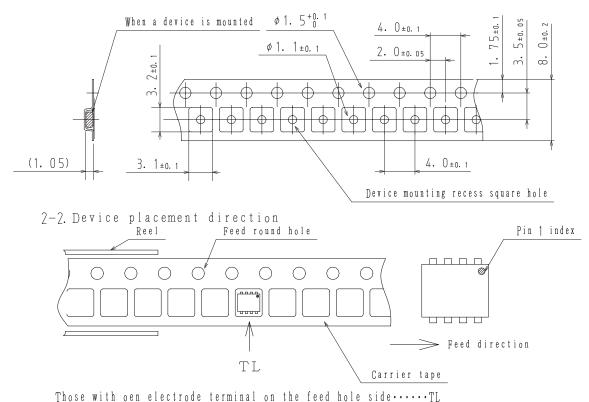
#### Taping Specification SBS811-TL-E

1. Packing Format

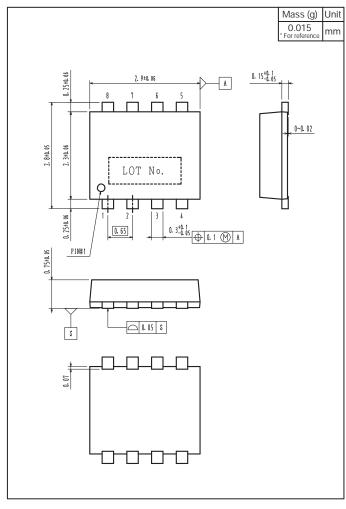


## 2. Taping configuration

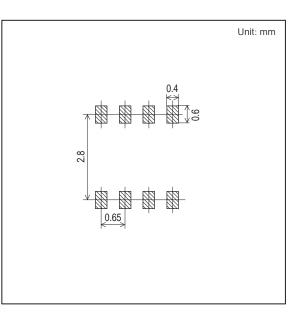
2-1. Carrier tape size (unit:mm)



## Outline Drawing SBS811-TL-E



# Land Pattern Example



**SBS811** 

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