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

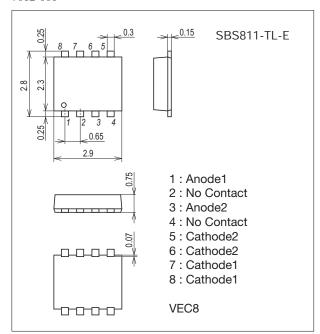
Absolute Maximum Ratings at Ta=25°C

| Parameter | Symbol | Conditions | Ratings | Unit |
|--|------------------|-------------------------|-------------|------|
| Repetitive Peak Reverse Voltage | VRRM | | 30 | V |
| Nonrepetitive Peak Reverse Surge Voltage | V _{RSM} | | 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

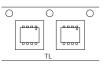


Product & Package Information : VEC8

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

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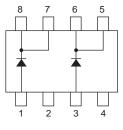
Packing Type : TL



Marking



Electrical Connection

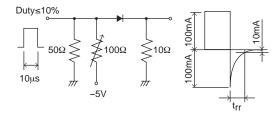


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Electrical Characteristics at Ta=25°C

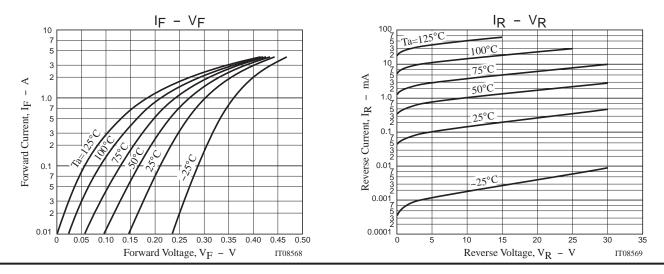
| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---------------------------|-----------------|--|--------------------------------------|------|------|--------|
| | | Conditions | min | typ | max | Unit |
| Reverse Voltage | VR | IR=2.0mA | 30 | | | V |
| Forward Voltage | VF | IF=1.0A | | 0.30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

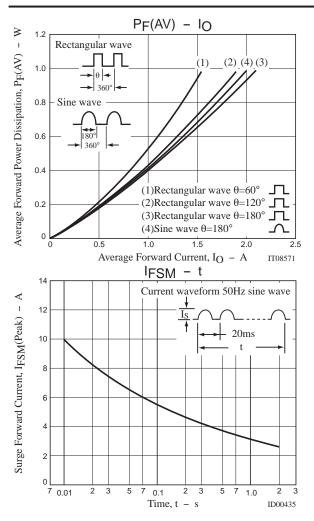
trr Test Circuit

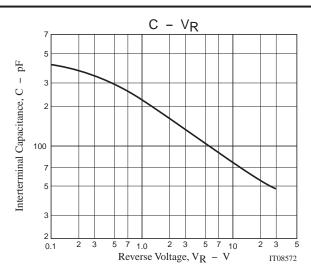


Ordering Information

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

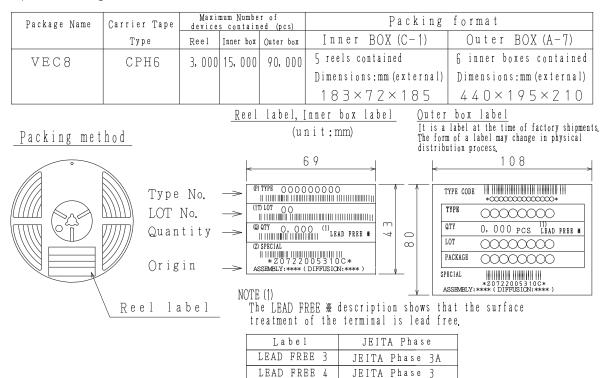






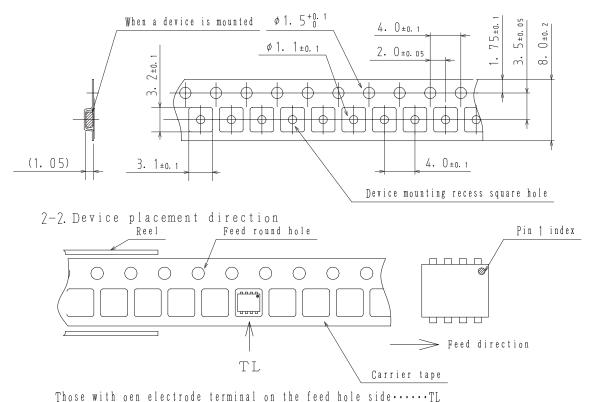
Taping Specification SBS811-TL-E

1. Packing Format

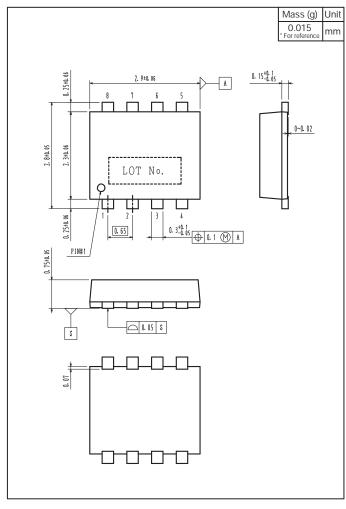


2. Taping configuration

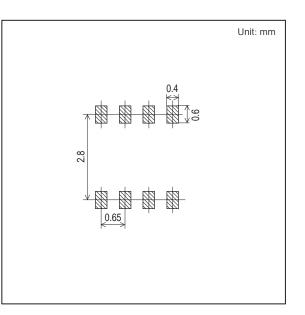
2-1. Carrier tape size (unit:mm)



Outline Drawing SBS811-TL-E



Land Pattern Example



SBS811

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