SBS811

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



www.onsemi.com

SBS811 is Schottky barrier diode, Low VF, Non-monolithic dual VEC8 common cathode for high frequency rectification applications.

Features

- Small Switching Noise
- Low Forward Voltage (IF=2A, VF max =0.40V)

Typical Applications

- Switching Regulators
- Converters
- Choppers

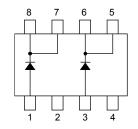
SPECIFICATIONS

ABSOLUTE MAXIMUM RATING at Ta = 25°C (Note 1)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	VRRM	30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM	30	V
Average Output Current	IO	2.0	Α
Surge Forward Current 50Hz sine wave, 1 cycle	IFSM	10	Α
Junction Temperature	Tj	-55 to +125	°C
Storage Temperature	Tstg	-55 to +125	°C

Note 1: Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

ELECTRICAL CONNECTION



- 1: Anode1
- 2: No Contact
- 3: Anode2
- 4 : No Contact 5 : Cathode2
- o: Cathodez
- 6: Cathode2
- 7: Cathode1 8: Cathode1

PACKING TYPE: TL

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MARKING

ORDERING INFORMATION

See detailed ordering and shipping information on page 4 of this data sheet.

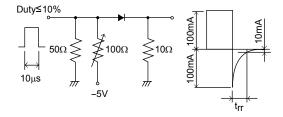
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ELECTRICAL CHARACTERISTICS at $Ta = 25^{\circ}C$ (Note 2)

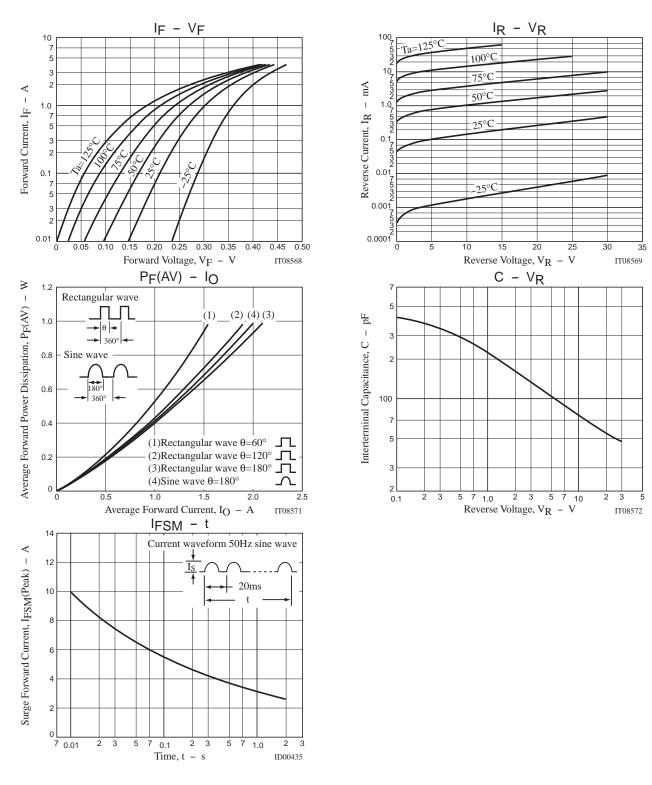
Parameter	Cumbal	Conditions	Value			Unit	
Parameter	Symbol	I Conditions		typ	max	Unit	
Reverse Voltage	VR	IR=2.0mA	30			V	
Forward Voltage	\/-	IF=1.0A		0.30	0.35	V	
	VF	IF=2.0A		0.35	0.40	V	
Reverse Current	IR	V _R =15V			1.25	mA	
Interterminal Capacitance	С	V _R =10V, f=1MHz		75		pF	
Reverse Recovery Time	t _{rr}	I _F = I _R =100mA, See specified Test Circuit 2		20	ns		
Thermal Resistance	Rth(j-a)1	When mounted in Cu-foiled area of 1.92mm² × 0.03mm on glass epoxy substrate			°C/W		
memai Resistance	Rth(j-a)2	When mounted on ceramic substrate (1000mm ² × 0.8mm)		70		°C/W	

Note 2 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Switching Time Test Circuit

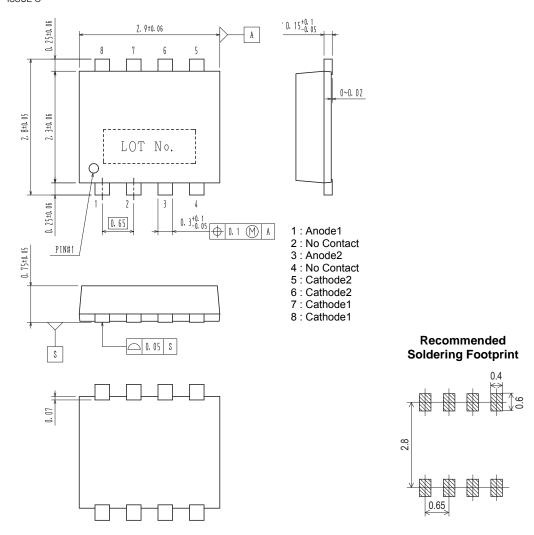


SBS811



PACKAGE DIMENSIONS

unit: mm SOT-28FL/VEC8 CASE 318AH ISSUE O



ORDERING INFORMATION

Device	Marking	Package	Shipping (Qty / Packing)	
SBS811-TL-E	SD	SOT-28FL / VEC8 (Pb-Free)	3,000 / Tape & Reel	

[†] For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D. http://www.onsemi.com/pub_link/Collateral/BRD8011-D.PDF

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