

# SANYO Semiconductors DATA SHEET

# 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	٧
Average Output Current	lo		2.0	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

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

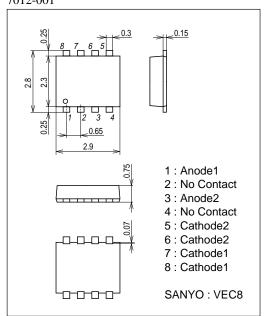
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	IR=2.0mA	30			V
Forward Voltage	VF	IF=1.0A		0.30	0.35	V
		IF=2.0A		0.35	0.40	V
Reverse Current	IR	V <sub>R</sub> =15V			1.25	mA
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		75		pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =100mA, See specified Test Circuit.			20	ns
Thermal Resistance	Rth(j-a)1	Mounted in Cu-foiled area of 1.92mm <sup>2</sup> X0.03mm		75		°C/W
		on glass epoxy board				
	Rth(j-a)2	Mounted on a ceramic board (1000mm²X0.8mm)		70		°C / W

Marking : SD

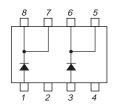
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# **Package Dimensions**

unit : mm 7012-001



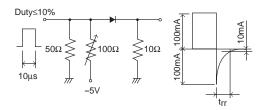
# **Electrical Connection**

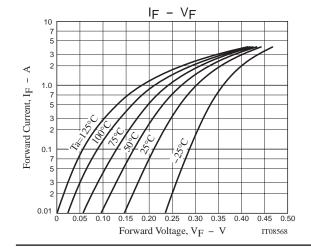


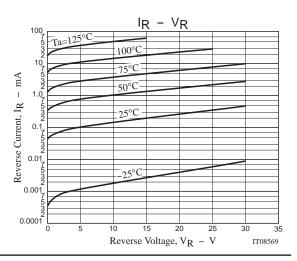
- 1 : Anode1 2 : No Contact
- 3 : Anode2
- 4 : No Contact
- 5 : Cathode2 6 : Cathode2
- 7 : Cathode1
- 8: Cathode1

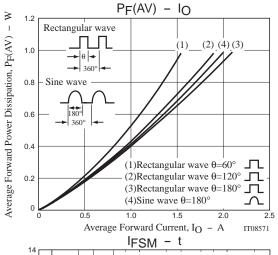
Top view

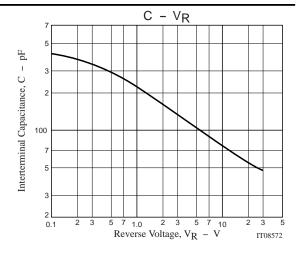
# trr Test Circuit

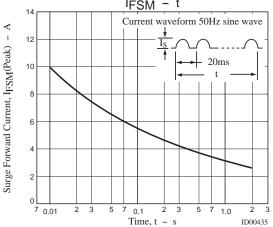












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