

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	V
Average Output Current	ΙO		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

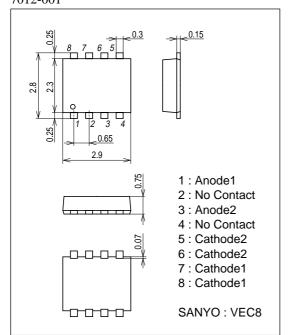
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I _R =2.0mA	30			V
Forward Voltage	VF	IF=1.0A		0.30	0.35	V
		I _F =2.0A		0.35	0.40	V
Reverse Current	IR	V _R =15V			1.25	mA
Interterminal Capacitance	С	V _R =10V, f=1MHz		75		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA,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

Marking : SD

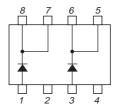
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Package Dimensions

unit : mm 7012-001



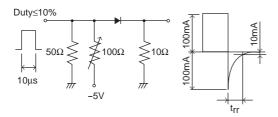
Electrical Connection

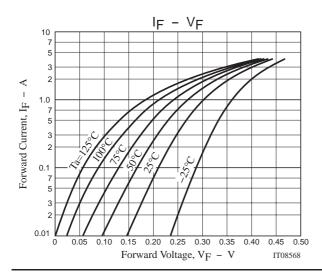


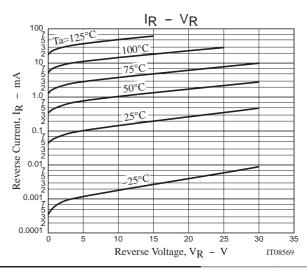
1 : Anode1
2 : No Contact
3 : Anode2
4 : No Contact
5 : Cathode2
6 : Cathode2
7 : Cathode1
8 : Cathode1

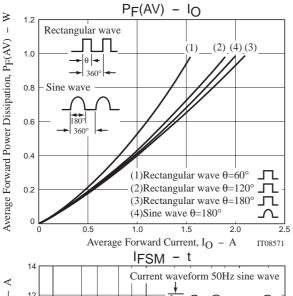
Top view

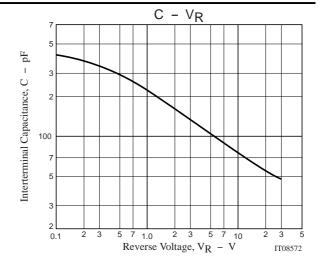
trr Test Circuit

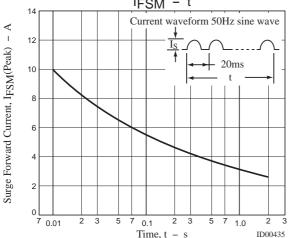












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