



30V, 1A Rectifier

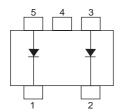
Applications

• High frequency rectification (switching regulators, converters, choppers).

Features

- Low forward voltage (I_F=0.5A, V_F max=0.40V) (I_F=1.0A, V_F max=0.47V).
- Short reverse recovery time(t_{rr} max.=15ns).
- Composite type with 2 low VF SBDs in one package, facilitating high-density mounting.
- The SBS805 is composed of 2 chips that are equivalent to the SBS005.

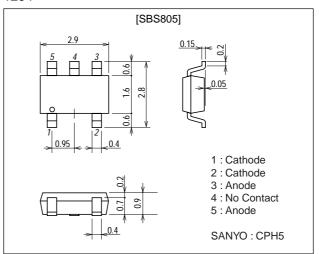
Electrical Connection



- 1: Cathode
- 2: Cathode
- 3: Anode
- 4 : No Contact
- 5 : Anode

Package Dimensions

unit : mm 1294



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	lo		1	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

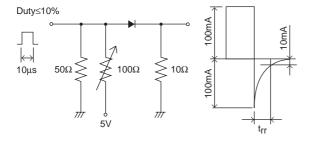
Marking: SD

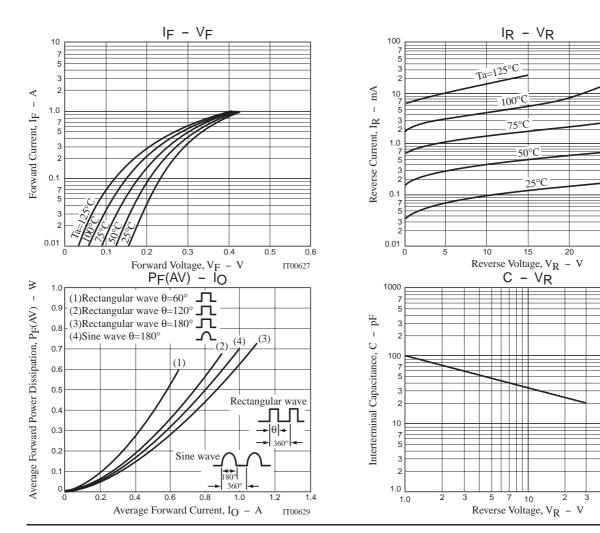
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Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	٧R	I _R =1mA	30			V
Forward Voltage	V _F 1	IF=0.5A		0.35	0.40	V
	V _F 2	IF=1A		0.42	0.47	V
Reverse Current	IR	V _R =15V			500	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		35		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.			15	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm ² X0.8mm)		110		°C/W

trr Test Circuit





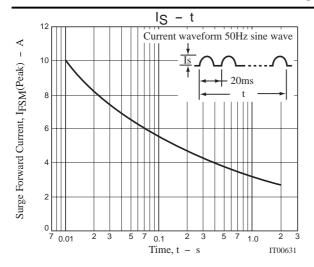
IT00630

100

25

IT00628

f=1MHz



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