

SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

____ Schottky Barrier Diode

150V, 100mA Rectifier

Applications

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

Features

- Low forward voltage (VF max=0.75V)
- Fast reverse recovery time (t_{rr} max=10ns)

- Low switching noise
- · Low leakage current and high reliability due to highly reliable planar structure

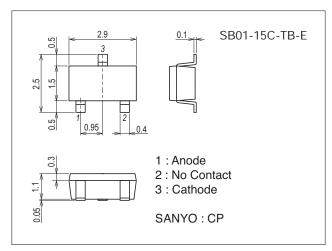
Specifications

Absolute Maximum Ratings at Ta=25°C

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Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		150	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		155	V
Average Output Current	IO		100	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	А
Junction Temperature	Тј		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Package Dimensions

unit : mm (typ) 7013A-004

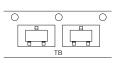


Product & Package Information

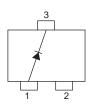
- Package : CP
- JEITA, JEDEC : SC-59, TO-236, SOT-23, TO-236AB
- Minimum Packing Quantity : 3,000 pcs./reel

Packing Type: TB

Marking



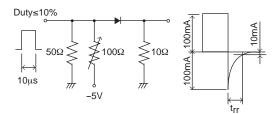
Electrical Connection



Electrical Characteristics at Ta=25°C

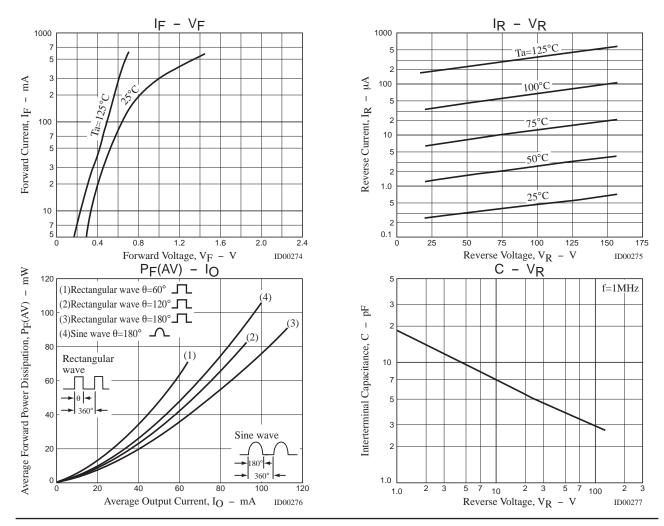
Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Unit
Reverse Voltage	VR	IR=200μA	150			V
Forward Voltage	VF	IF=100mA			0.75	V
Reverse Current	IR	V _R =75V			50	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		7		рF
Reverse Recovery Time	trr	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)1			420		°C / W
	Rth(j-a)2	Mounted in Cu-foiled area of 16mm ² ×0.2mm		330		°C/W
		on glass epoxy board				

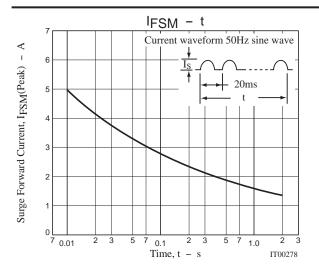
trr Test Circuit



Ordering Information

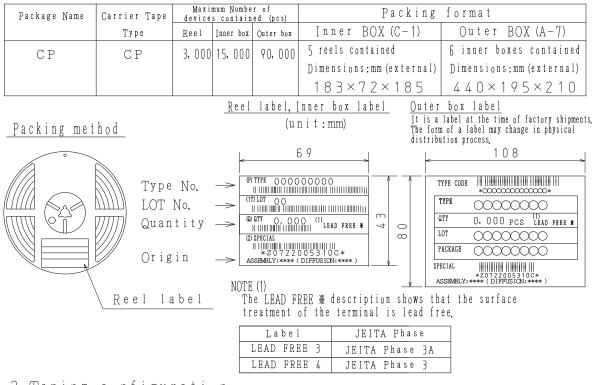
Device	Package	Shipping	memo					
SB01-15C-TB-E	СР	3,000pcs./reel	Pb Free					



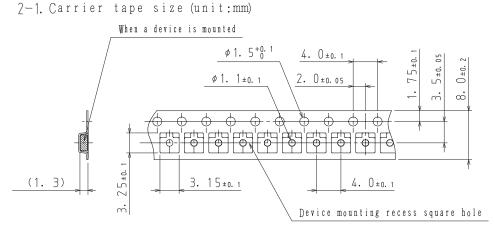


Embossed Taping Specification SB01-15C-TB-E

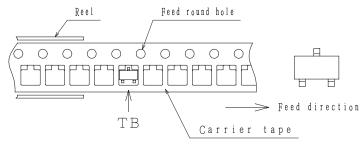
1. Packing Format



2. Taping configuration

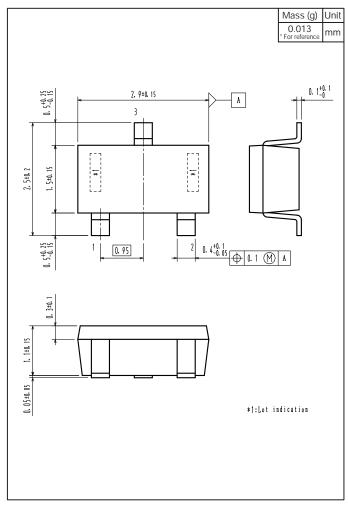


2-2. Device placement direction

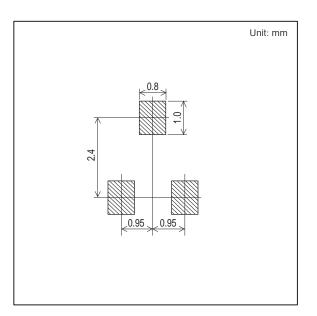


Those with one electrode terminal on the feed hole side TB

Outline Drawing SB01-15C-TB-E



Land Pattern Example



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