imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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SB01-15C

Schottky Barrier Diode 150V, 0.1A, Low IR, Single CP



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

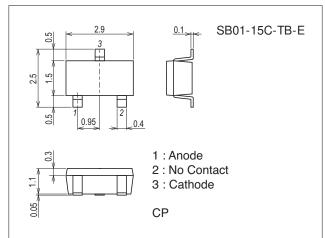
Absolute Maximum Ratings at Ta=25°C

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

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Package Dimensions

unit : mm (typ) 7013A-004



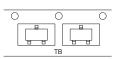
Product & Package Information

- Package
- JEITA, JEDEC : SC-59, TO-236, SOT-23, TO-236AB

: CP

• Minimum Packing Quantity : 3,000 pcs./reel

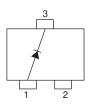
Packing Type: TB





Marking

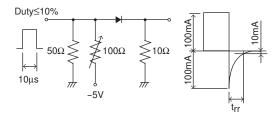
Electrical Connection



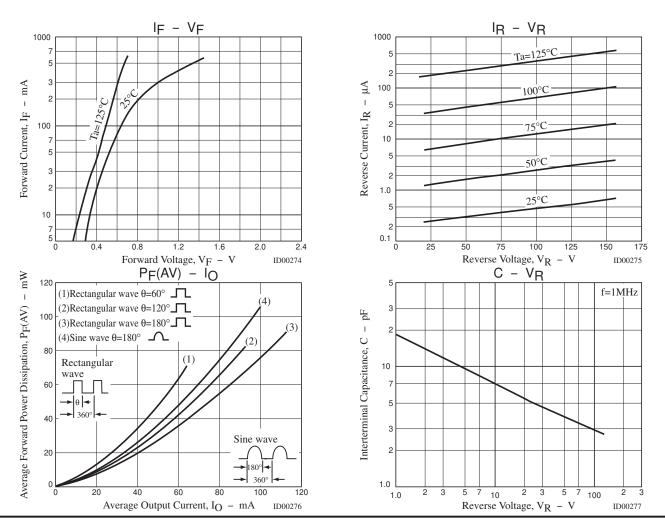
Electrical Characteristics at Ta=25°C

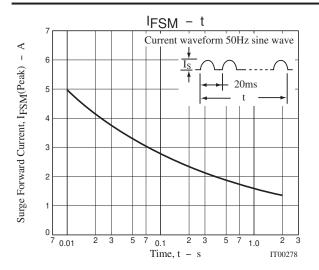
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	I _R =200μA	150			V
Forward Voltage	VF	IF=100mA			0.75	V
Reverse Current	IR	V _R =75V			50	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		7		рF
Reverse Recovery Time	trr	IF=IR=100mA, See specified Test Circuit.			10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

trr Test Circuit



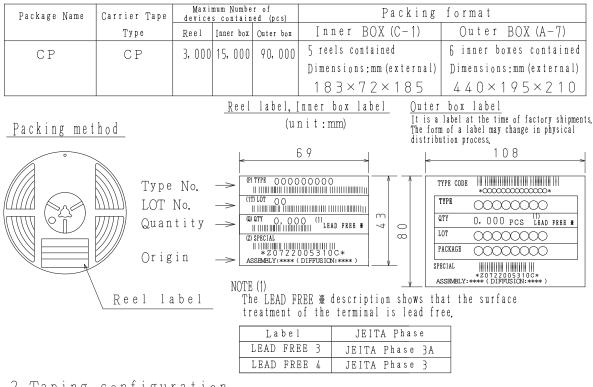
Ordering Information



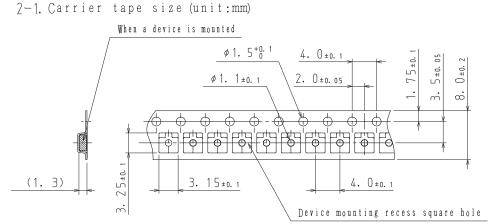


Embossed Taping Specification SB01-15C-TB-E

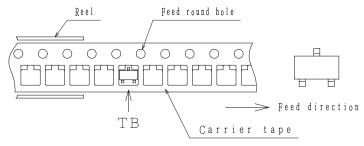
1. Packing Format



2. Taping configuration

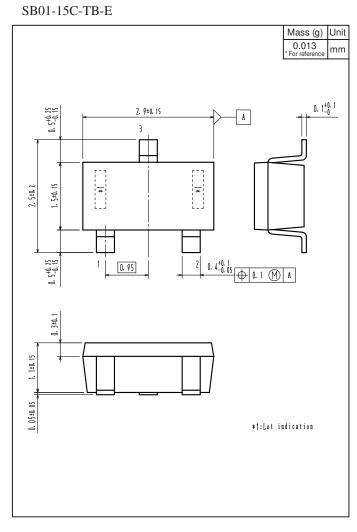


2-2. Device placement direction

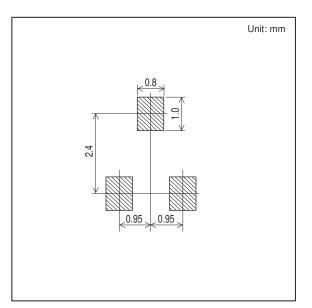


Those with one electrode terminal on the feed hole side TB

Outline Drawing



Land Pattern Example



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