

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

SB10015M — Low IR Schottky Barrier Diode 15V, 1.0A Rectifier

Applications

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

Features

- · Small switching noise
- · Low leakage current and high reliability due to highly reliable planar structure
- Ultrasmall package permitting applied sets to be small and slim (mounting height 0.85mm)

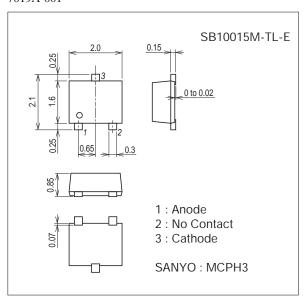
Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		15	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		17	V
Average Output Current	IO		1.0	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	А
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Package Dimensions

unit : mm (typ) 7019A-001

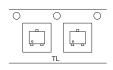


Product & Package Information

• Package : MCPH3

JEITA, JEDEC : SC-70, SOT-323
 Minimum Packing Quantity : 3,000 pcs./reel

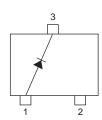
Packing Type: TL



Marking



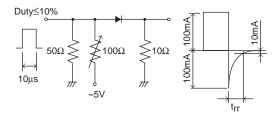
Electrical Connection



Electrical Characteristics at Ta=25°C

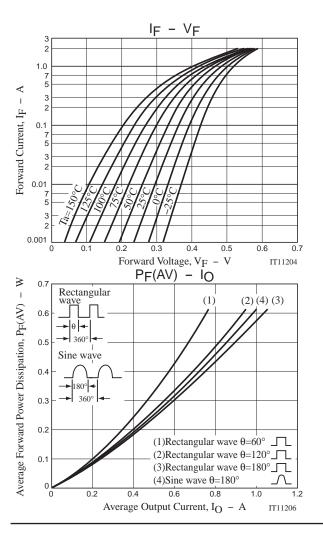
Parameter	Symbol	Conditions	Ratings			Unit
	Syllibol	Conditions	min	typ	max	Ullit
Reverse Voltage	VR	I _R =0.1mA	15			V
Forward Voltage	V _F 1	I _F =0.5A		0.43	0.48	V
	V _F 2	I _F =1.0A		0.49	0.54	V
Reverse Current	IR	V _R =7.5V			3	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		20		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	When mounted in Cu-foiled area of		185		°C / W
		0.72mm ² ×0.03mm on glass epoxy substrate	100			

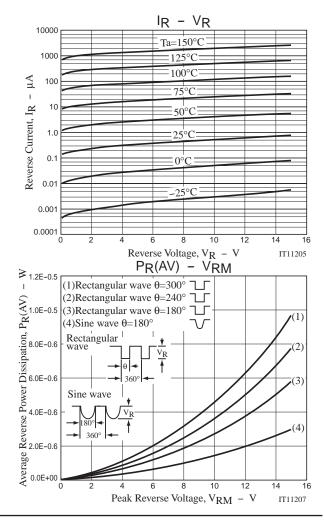
trr Test Circuit



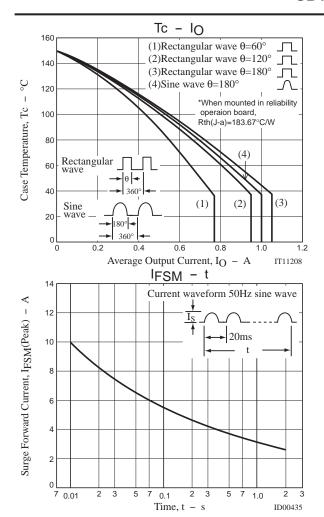
Ordering Information

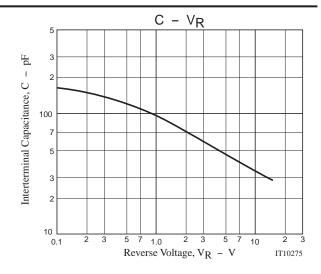
Device	Package	Shipping	memo	
SB10015M-TL-E	MCPH3	3,000pcs./reel	Pb Free	





SB10015M

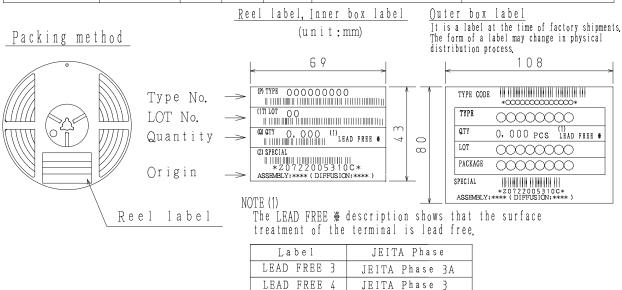




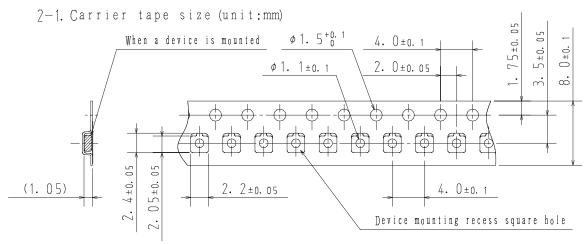
Taping Specification SB10015M-TL-E

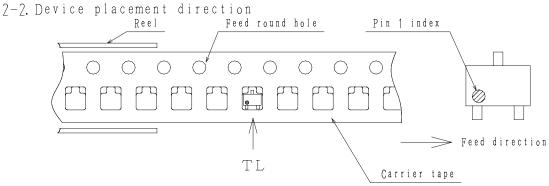
1. Packing Format

Package Name	Carrier Tape	Maximun Number of devices contained (pcs)			Packing	ng format		
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)		
мсрн3	мсрн3	3,000	15, 000	90,000	5 reels contained	6 inner boxes contained		
_	_				Dimensions:mm (external)	Dimensions:mm (external)		
					183×72×185	440×195×210		



2. Taping configuration

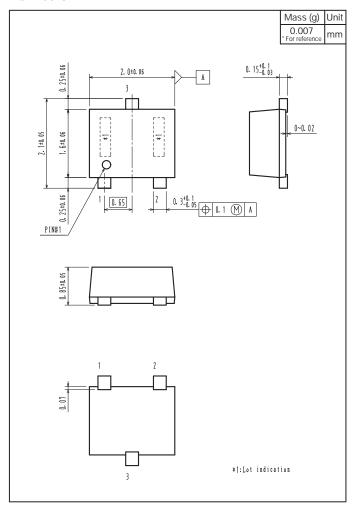




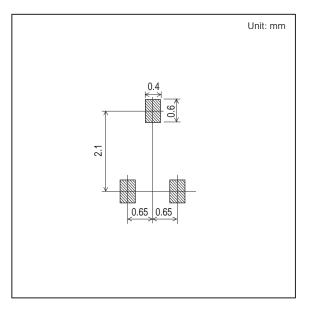
Those with pin 1 index on the feed hole side·····TL

Outline Drawing

SB10015M-TL-E



Land Pattern Example



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