SS0503SH



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Schottky Barrier Diode 30V, 0.5A, Low VF, Single SCH6

Applications

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

Features

- · Low forward voltage (IF=0.3A, VF max=0.42V) (IF=0.5A, VF max=0.47V)
- · Ultrasmall package permitting applied sets to be small and slim

Specifications

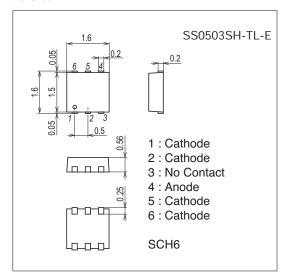
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		30	V
Average Output Current	IO		0.5	А
Surge Forward Current	I _{FSM}	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

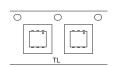
unit : mm (typ) 7028-001



Product & Package Information

Package : SCH6
JEITA, JEDEC : SOT-563
Minimum Packing Quantity : 5,000 pcs./reel

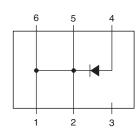
Packing Type: TL





Marking

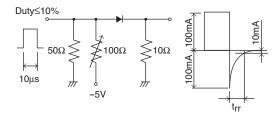
Electrical Connection



Electrical Characteristics at Ta=25°C

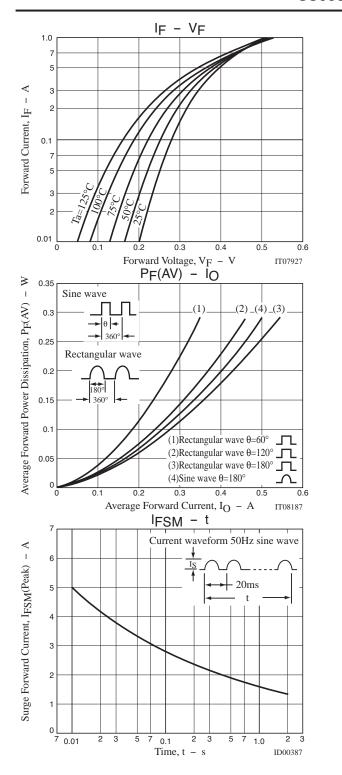
Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	UIIIL
Reverse Voltage	VR	I _R =0.5mA	30			V
Forward Voltage	V _F 1	IF=0.3A		0.37	0.42	V
	V _F 2	I _F =0.5A		0.42	0.47	V
Reverse Current	IR	V _R =15V			120	μΑ
Interterminal Capacitance	С	V _R =10V, f-1MHz		13		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit.			10	ns

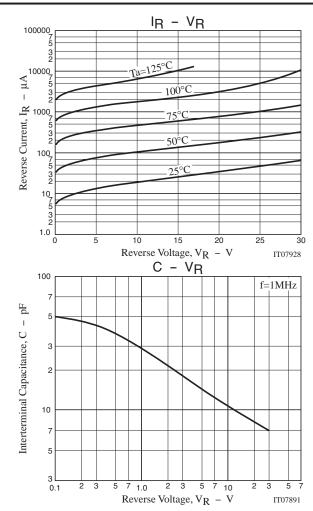
trr Test Circuit



Ordering Information

Device	Package	Shipping	memo
SS0503SH-TL-E	SCH6	5,000pcs./reel	Pb Free



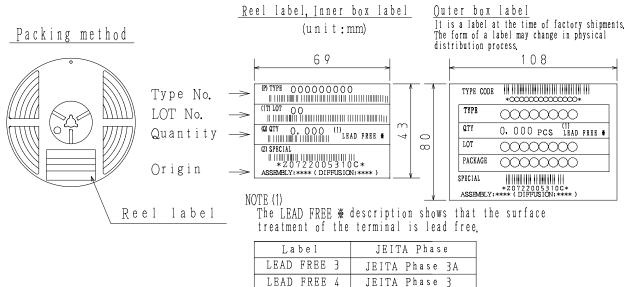


Embossed Taping Specification

SS0503SH-TL-E

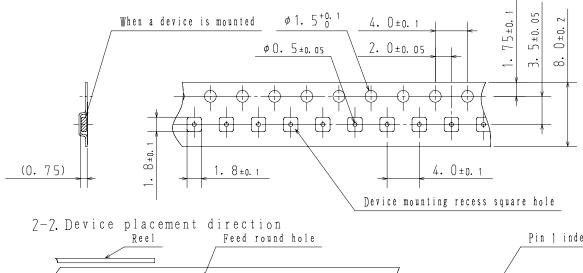
1. Packing Format

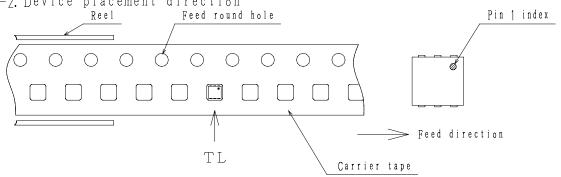
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing	g format	
	Туре	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)	
SCH6	SCH6	5,000	25, 000	150,000	5 reels contained	6 inner boxes contained	
					Dimensions:mm (external)	Dimensions:mm (external)	
					183×72×185	440×195×210	



2. Taping configuration

2-1. Carrier tape size (unit:mm)

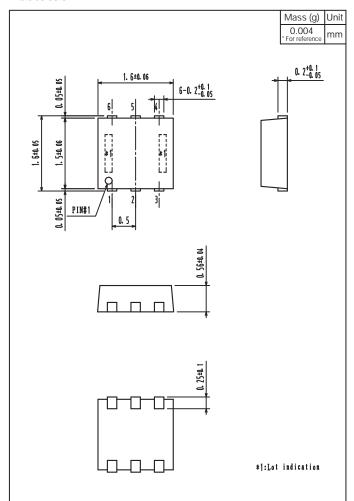




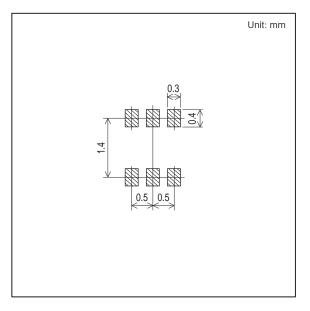
Those with pin 1 index on the feed hole side · · · · · TL

Outline Drawing

SS0503SH-TL-E



Land Pattern Example



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