

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

SBE807 — Schottky Barrier Diode 30V, 1.0A Rectifier

Applications

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

Features

- · Low switching noise
- Low reverse current (VR=16V, IR max=15 μ A)

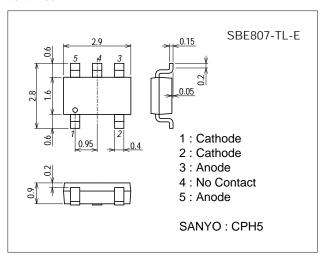
Specifications

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		35	V
Average Output Current	IO		1.0	А
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	10	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Package Dimensions

unit : mm (typ) 7017A-001

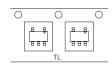


Product & Package Information

• Package : CPH5

JEITA, JEDEC : SC-74A, SOT-25
 Minimum Packing Quantity : 3,000 pcs./reel

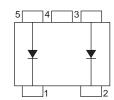
Packing Type: TL



Marking



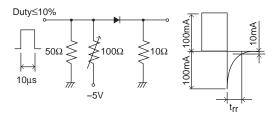
Electrical Connection



Electrical Characteristics at Ta=25°C

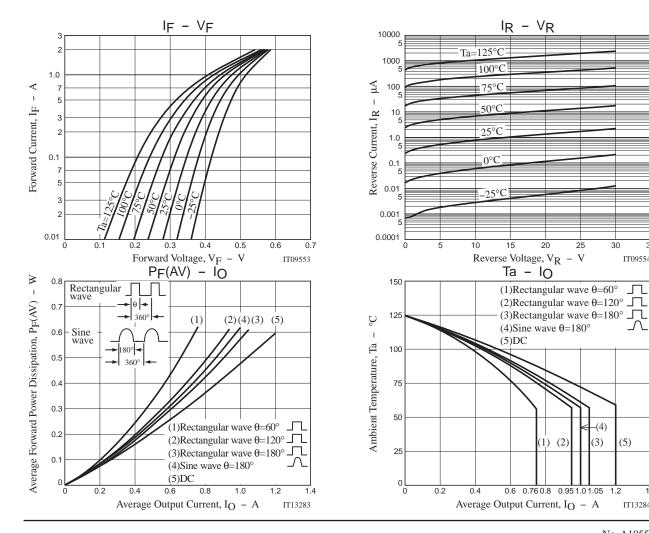
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol	Conditions	min	typ	max	UIII
Reverse Voltage	VR	I _R =0.2mA	30			V
Forward Voltage	V _F 1	I _F =0.7A		0.45	0.50	V
	V _F 2	I _F =1.0A		0.48	0.53	V
Reverse Current	IR	V _R =16V			15	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		27		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	When mounted on ceramic substrate (900mm ² ×0.8mm)		111		°C / W

trr Test Circuit



Ordering Information

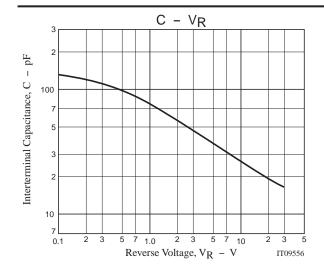
Device	Package	Shipping	memo	
SBE807-TL-E CPH5		3,000pcs./reel	Pb Free	

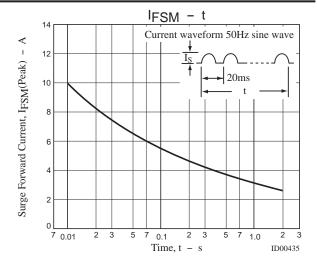


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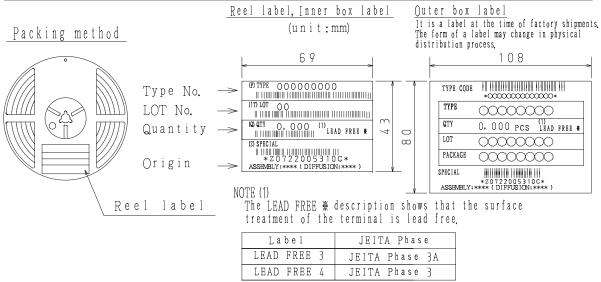


Embossed Taping Specification

SBE807-TL-E

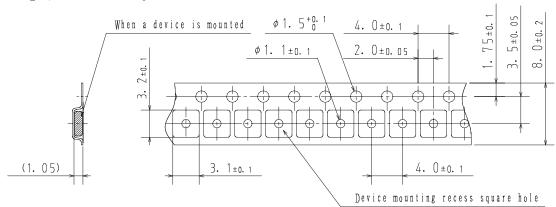
1. Packing Format

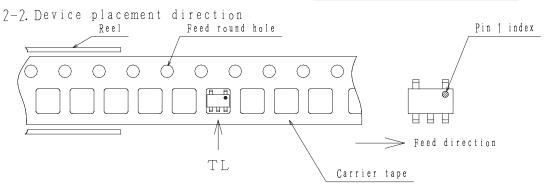
Package Name	Carrier Tape	Maximum Number of devices contained (pcs)			Packing	format
	Туре	Reel	Inner box	Outer box	Inner $BOX(C-1)$	Outer BOX (A-7)
CPH5	СРН6	3, 000	15, 000	90,000	5 reels contained	6 inner boxes contained
					Dimensions:mm (external)	Dimensions:mm (external)
					183×72×185	440×195×210



7. Taping configuration

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





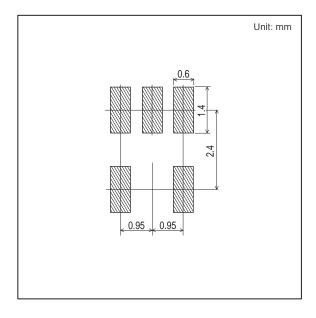
Those with pin 1 index on the feed hole side \cdots TL

Outline Drawing

SBE807-TL-E

Mass (g) Unit 0.02 * For reference mm 0. 15^{+0. 1}_{-0. 05} 2. 9±0. 1 0.6±0.1 0. 2±0.1 *1 | *1 O. 05±0.05 2. 8±0. 15 1.6±0.1 *1 0.6±0.1 0. 95 PIN#1 0.9±0.05 0.05 8 *1:Lot indication

Land Pattern Example



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