

SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company

SBE805

___ Silicon Schottky Barrier Diode

30V, 500mA Rectifier

Features

- Low forward voltage (VF max=0.55V)
- Fast reverse recovery time (t_{rr} max=10ns)
- Composite type with 2 diodes contained in the CPH package currently in use, improving the mounting efficiency greatly
- · The chips incorporated are both equivalent to the SB05-03C

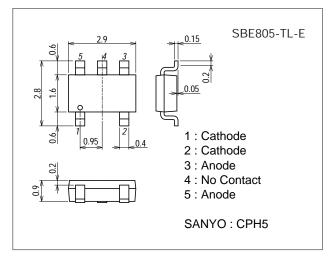
Specifications

Absolute Maximum Ratings at Ta=25°C (Value per element)

		-		
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	IO		500	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) 7017A-001

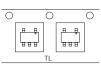


Product & Package Information

- Package : CPH5
- JEITA, JEDEC : SC-74A, SOT-25
- Minimum Packing Quantity : 3,000 pcs./reel

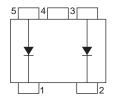
Packing Type : TL

Marking





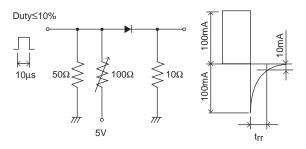
Electrical Connection



Electrical Characteristics at Ta=25°C (Value per element)

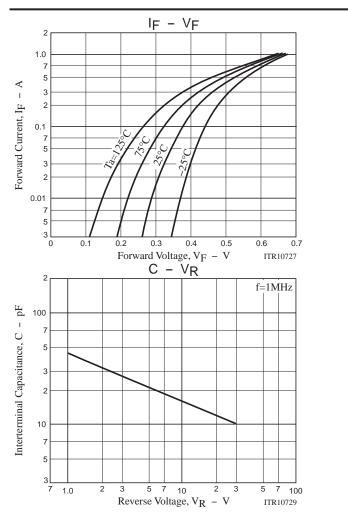
Parameter	Symbol	Conditions		Unit			
Parameter	Symbol	Conditions	min	typ	max	Unit	
Reverse Voltage	VR	IR=150μA	30			V	
Forward Voltage	VF	IF=500mA			0.55	V	
Reverse Current	IR	V _R =15V			30	μΑ	
Interterminal Capacitance	С	V _R =10V, f=1MHz		16		рF	
Reverse Recovery Time	trr	IF=IR=100mA, See specified Test Circuit.			10	ns	
Thermal Resistance	Rth(j-a)			300		°C / W	

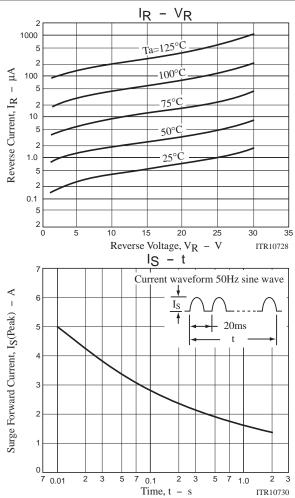
trr Test Circuit



Ordering Information

Device	Package	Shipping	memo	
SBE805-TL-E	CPH5	3,000pcs./reel	Pb Free	





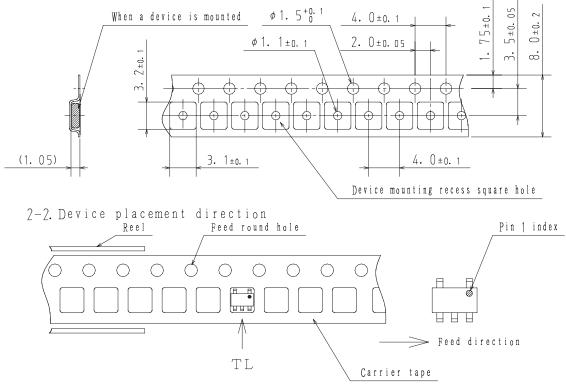
Embossed Taping Specification SBE805-TL-E

1. Packing Format

CPH5 CPH6 3,000 15,000 90,000 5 reels contained Dimensions:mm (external) 183×72×185 6 inner boxes contai Dimensions:mm (external) 440×195×21 Packing method Reel label, Inner box label (unit:mm) Outer box label It is a label at the time of factory sh The form of a label may change in physic distribution process, Type No. 69 108 CDT No. 1000 mm of a label may change in physic distribution process, Type CODE Wumming Units (2) SPECIAL Or ig in Sector Color on Units (2) SPECIAL Sector	Package Name	Carrier Tape		num Numbe s contain			P	acking	format
Chilly Chilly Stood PS, ood PS, o		Туре	Reel	Inner box	Outer box	In	ner BOX	(C-1)	Outer BOX (A-7)
183×72×185 440×195×21 Reel label, Inner box label (unit:mm) Outer box label It is a label at the time of factory sh The form of a label may change in physic distribution process. Image: String method 69 Image: String method 108 Image:	CPH5	CPH6	3,000	15,000	90,000	5 ree	els containe	e d	6 inner boxes contained
Reel label, Inner box label (unit:mm) Outer box label It is a label at the time of factory sh The form of a label may change in physi distribution process. Packing method 69 108 Type No. 1010 Toro 1000 Type code 108 Uot No. 1000 Type code 1000 type code 1000 type code Willing 1000 type code 1000 type code 1000 type code Word Type code 1000 type code 1000 type code 1000 type code Word Type code 1000 type code 1000 type code 1000 type code Word Type code 1000 type code 1000 type code 1000 type code Or ig in 20722005310c* Assembly:**** (diffusion:****) 20722005310c* Assembly:***** (diffusion:*****) 3000 type code						Dime	nsions:mm ((external)	Dimensions:mm (external)
Packing method (unit:mm) It is a label at the time of factory sh It is a label at the time of factory sh The form of a label may change in physi It is a label at the time of factory sh						18	$3 \times 72 \times$	< 185	440×195×210
Reel label NOTE (1) Assemulty:***** (bif#ubilok:****) The LEAD FREE ** description shows that the surface treatment of the terminal is lead free. Label JEITA Phase LEAD FREE 3 JEITA Phase 3A	Packing met	Type LOT Quan Orig	No. tity in	-> (P) -> (0) -> (0) (2) -> AS NOTE Th tr	(u: TYPE 0000C IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	n i t :r 5 9 000000 000000 000000 00000 00000 00000 0000	nm)	The for The for distri	a label at the time of factory shipments rm of a label may change in physical bution process, 1 0 8 TYPE CODE

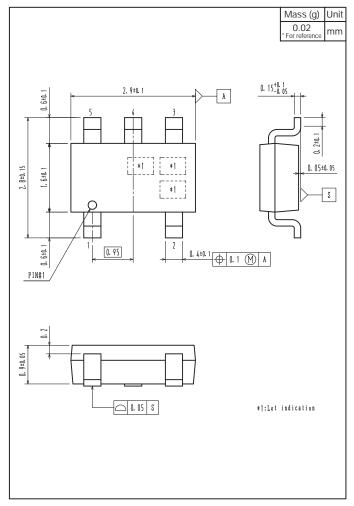
2. Taping configuration

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

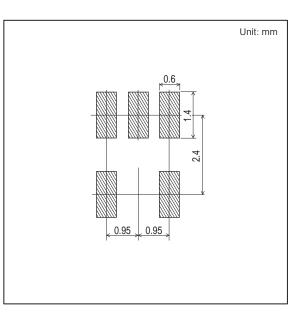


Those with pin 1 index on the feed hole side $\cdots \cdots TL$

Outline Drawing SBE805-TL-E



Land Pattern Example



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