SBE805

ON Semiconductor®

Schottky Barrier Diode 30V, 0.5A, Low IR

http://onsemi.com

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

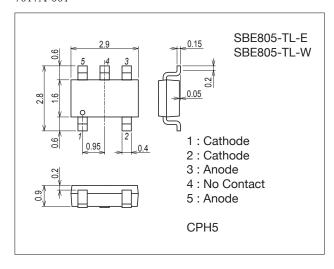
Absolute Maximum Ratings at Ta=25°C (Value per element)

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	Α
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) 7017A-001

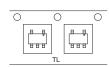


Product & Package Information

• Package : CPH5

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

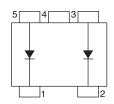
Packing Type: TL



Marking



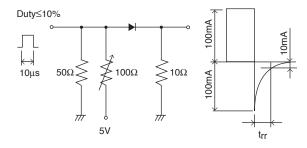
Electrical Connection



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

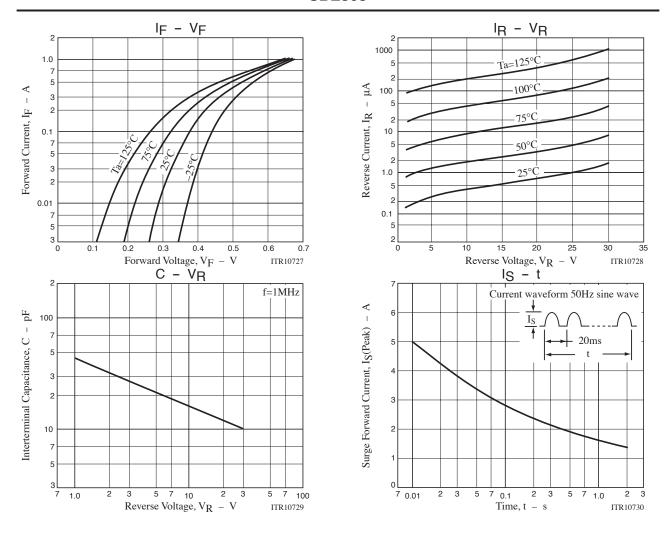
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	VR	I _R =150μA	30			V
Forward Voltage	VF	IF=500mA			0.55	V
Reverse Current	IR	V _R =15V			30	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		16		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.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

t_{rr} Test Circuit



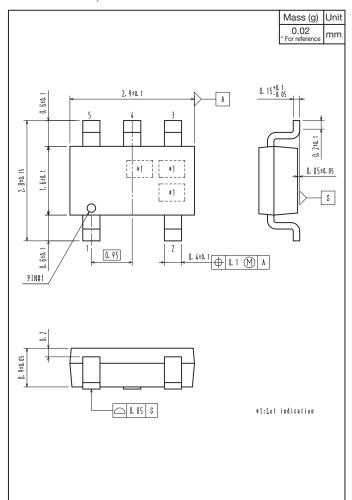
Ordering Information

Device	Package	Shipping	memo	
SBE805-TL-E	CDUE	2.000000 /rool	Pb-Free	
SBE805-TL-W	CPH5	3,000pcs./reel	Pb-Free and Halogen Free	

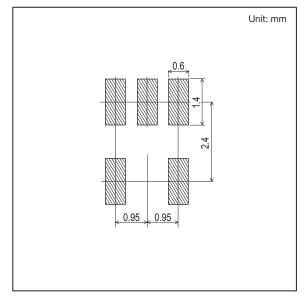


Outline Drawing

SBE805-TL-E, SBE805-TL-W



Land Pattern Example



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