SBE805

Schottky Barrier Diode 30V, 0.5A, Low IR



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)

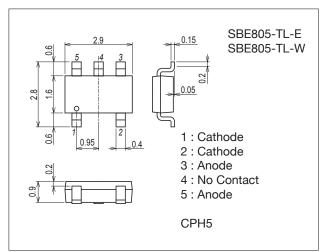
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	IO		500	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	А
Junction Temperature	Тј		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

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

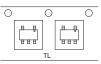
January, 2014



Product & Package Information

- Package
- : CPH5 : SC-74A, SOT-25
- JEITA, JEDEC : SC-74A, SOT-2
- Minimum Packing Quantity : 3,000 pcs./reel

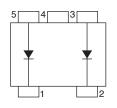
Packing Type : TL





Marking

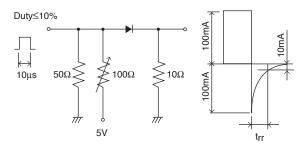
Electrical Connection



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

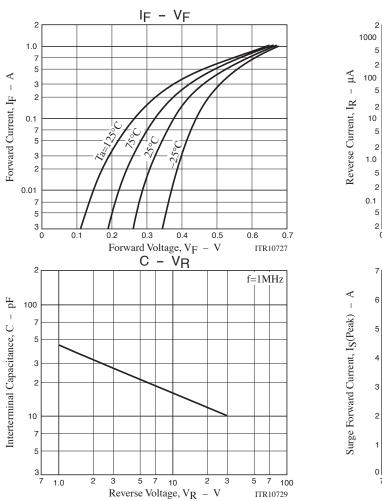
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	I _R =150μA	30			V
Forward Voltage	VF	IF=500mA			0.55	V
Reverse Current	IR	V _R =15V			30	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		16		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.	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

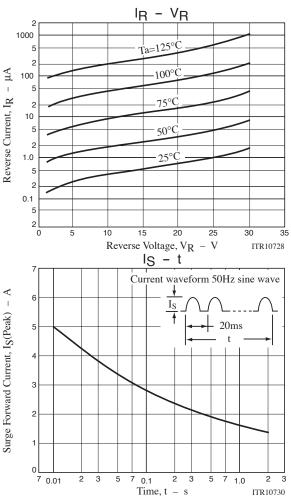
trr Test Circuit



Ordering Information

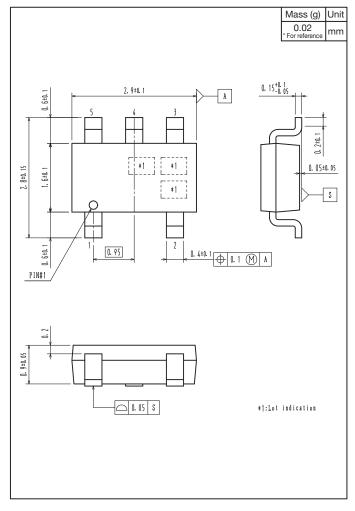
Device	Package	Shipping	memo	
SBE805-TL-E	CDUE		Pb-Free	
SBE805-TL-W	805-TL-W CPH5	3,000pcs./reel	Pb-Free and Halogen Free	



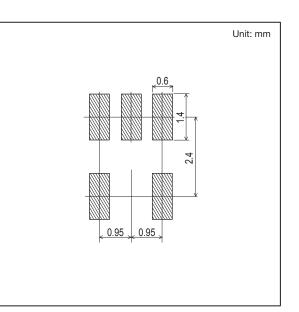


Outline Drawing

SBE805-TL-E, SBE805-TL-W



Land Pattern Example



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