SBE807

Schottky Barrier Diode 30V, 1A, Low IR



Applications

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

Features

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

Specifications

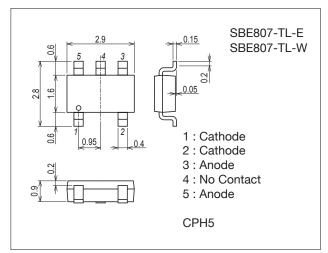
Absolute Maximum Ratings at Ta=25°C

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	IFSM	50Hz sine wave, 1 cycle	10	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

Package Dimensions

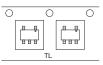
unit : mm (typ) 7017A-001



Product & Package Information • Package : CPH5

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

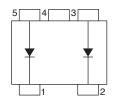
Packing Type : TL





Marking

Electrical Connection



ORDERING INFORMATION

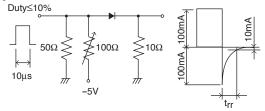
See detailed ordering and shipping information on page 2 of this data sheet.

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	UIII
Reverse Voltage	VR	I _R =0.2mA	30			V
Forward Voltage	VF1	IF=0.7A		0.45	0.50	V
	V _F 2	IF=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	trr	IF=IR=100mA, See specified Test Circuit.		10	ns	
Thermal Resistance	Rth(j-a)	When mounted on ceramic substrate (900mm ² ×0.8mm) 111			°C / W	

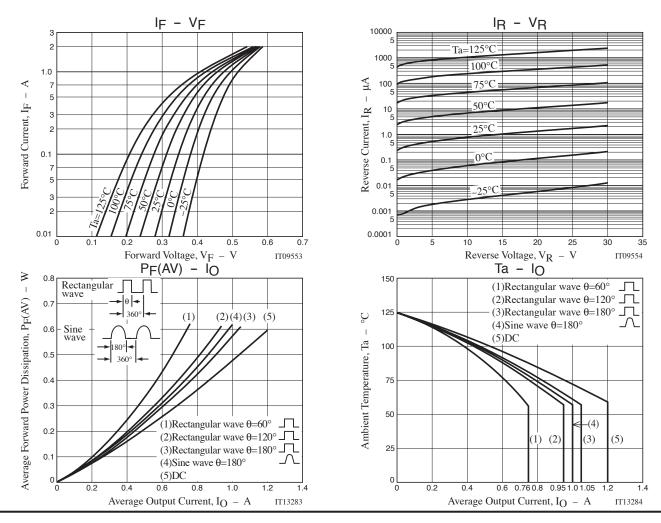
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

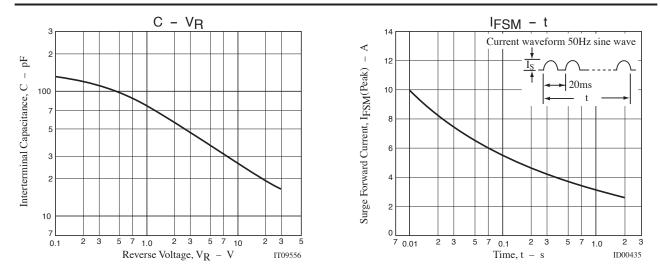
trr Test Circuit



Ordering Information

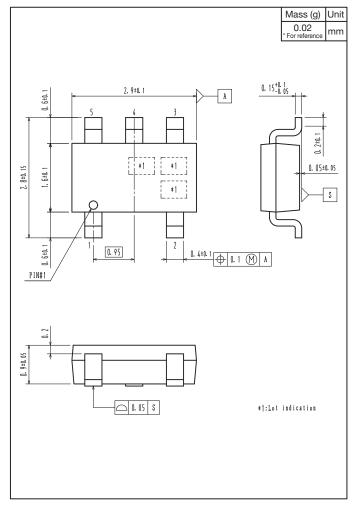
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Device	Device Package		memo		
SBE807-TL-E		2.0007000 /read	Pb-Free		
SBE807-TL-W	CPH5	3,000pcs./reel	Pb-Free and Halogen Free		



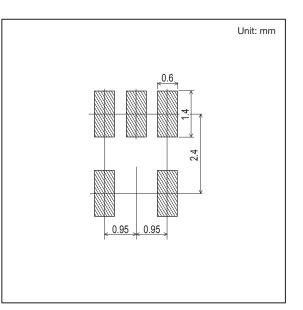


Outline Drawing

SBE807-TL-E, SBE807-TL-W



Land Pattern Example



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