SBE807

Schottky Barrier Diode 30V, 1A, Low IR



http://onsemi.com

Applications

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

Features

- · Low switching noise
- · Low reverse current (V_R=16V, I_R max=15μA)

Specifications

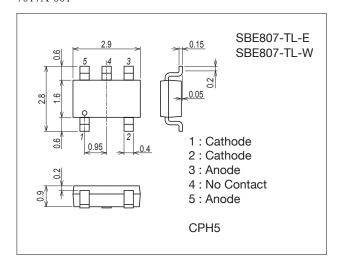
Absolute Maximum Ratings at Ta=25°C

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	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	Α
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

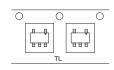


Product & Package Information

• Package : CPH5

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

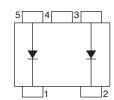
Packing Type: TL



Marking



Electrical Connection



ORDERING INFORMATION

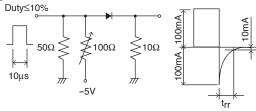
See detailed ordering and shipping information on page 2 of this data sheet.

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Offic
Reverse Voltage	VR	I _R =0.2mA	30			V
Forward Voltage	V _F 1	IF=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}	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	When mounted on ceramic substrate (900mm²×0.8mm)		111		°C/W

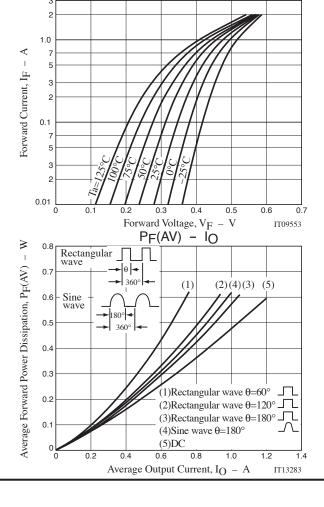
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

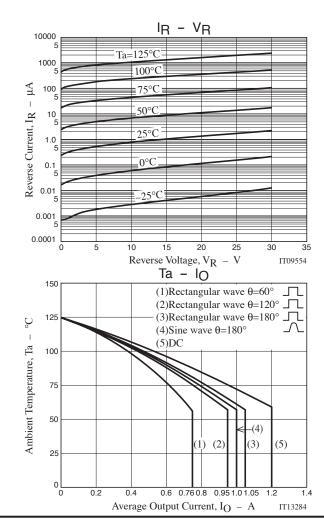
trr Test Circuit

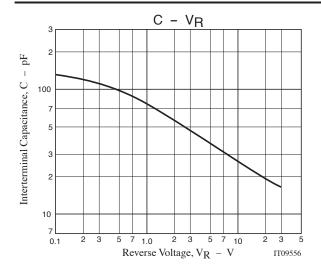


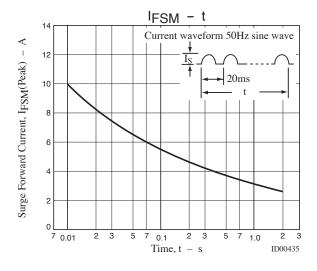
Ordering Information

Device	Package	Shipping	memo	
SBE807-TL-E	CDLIE	2.000maa /raal	Pb-Free	
SBE807-TL-W	CPH5	3,000pcs./reel	Pb-Free and Halogen Free	







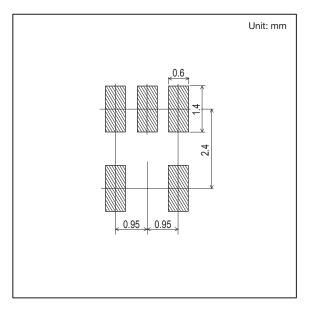


Outline Drawing

SBE807-TL-E, SBE807-TL-W

Mass (g) Unit 0.02 mm 2. 9±0. 1 0.6±0. *1 0. 05±0.05 2, 8±0, 15 6±0.1 *1 0, 6±0, 1 0. 95 PIN#1 0.05 \$ *1:Lot indication

Land Pattern Example



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