SBE808

Schottky Barrier Diode 15V, 1A, Low IR



http://onsemi.com

Applications

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

Features

- · Small switching noise
- · Halogen free compliance
- · Low leakage current and high reliability due to planar structure
- · Ultrasmall package permitting applied sets to be small and slim

Specifications

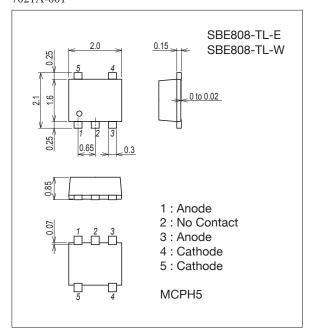
Absolute Maximum Ratings at Ta=25°C (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		17	V
Average Output Current	IO		1	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	Α
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°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) 7021A-001



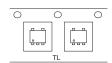
Product & Package Information

• Package : MCPH5

• JEITA, JEDEC : SC-88A, SC-70-5, SOT-353

• Minimum Packing Quantity : 3,000 pcs./reel

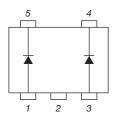
Packing Type: TL



Marking



Electrical Connection



ORDERING INFORMATION

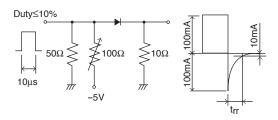
See detailed ordering and shipping information on page 2 of this data sheet.

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

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Offit
Reverse Voltage	VR	I _R =0.1mA	15			V
Forward Voltage	V _F 1	IF=0.5A		0.43	0.48	V
	V _F 2	I _F =1A		0.49	0.54	V
Reverse Current	IR	V _R =6V			3.0	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		20		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 (600mm²×0.8mm)		185		°C/W

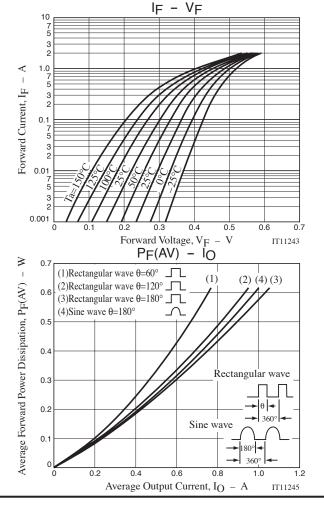
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

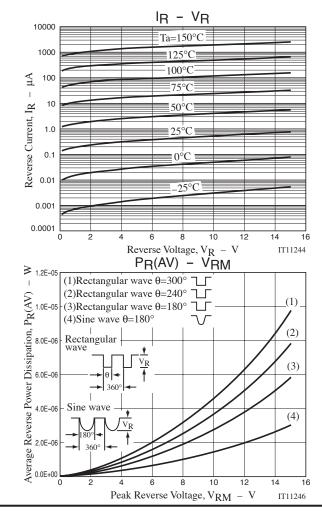
trr Test Circuit

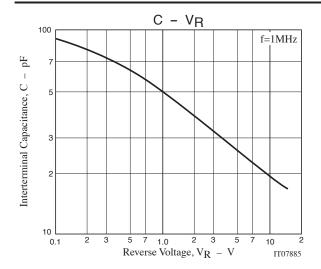


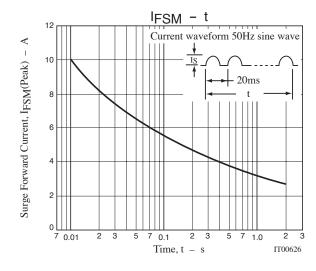
Ordering Information

Device	Package	Shipping	memo	
SBE808-TL-E MCPH5		3,000pcs./reel	Pb-Free	
SBE808-TL-W	808-TL-W MCPH5		Pb-Free and Halogen Free	







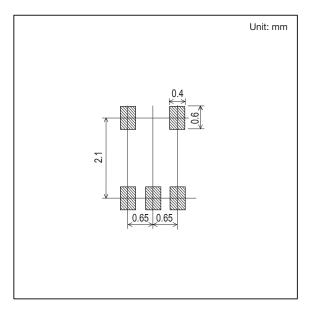


Outline Drawing

SBE808-TL-E, SBE808-TL-W

Mass (g) Unit 0.008 mm 0. 15^{+0. 1}_{-0. 03} 0. 25±0.06 2. 0±0.06 5 4 0~0.02 2, 1±0, 05 6±0.06 Q 0. 3^{+0. 1} 0.65 PIN#1 85±0.05 ○ 0. 05 S *1:Lot indication

Land Pattern Example



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