Ordering number : ENA0451B

SBE808

Schottky Barrier Diode
15V, 1A, Low I_R

ON Semiconductor®
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

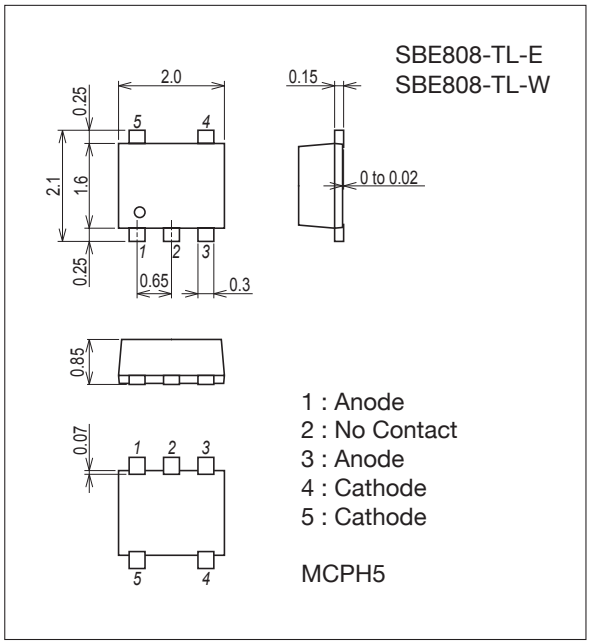
Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		15	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		17	V
Average Output Current	I_O		1	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	10	A
Junction Temperature	Tj		−55 to +150	°C
Storage Temperature	Tstg		−55 to +150	°C

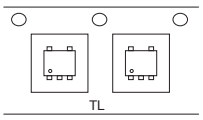
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

Package Dimensions
unit : mm (typ)
7021A-001

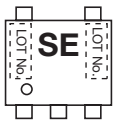


Product & Package Information
- Package : MCPH5
- JEITA, JEDEC : SC-88A, SC-70-5, SOT-353
- Minimum Packing Quantity : 3,000 pcs./reel

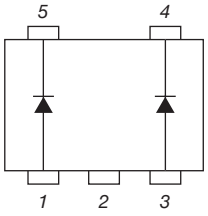
Packing Type : TL



Marking



Electrical Connection



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

Semiconductor Components Industries, LLC, 2014
May, 2014
52714HK TC-00002916/91912TKIM/N0106SYIM SB No. A0451-1/4

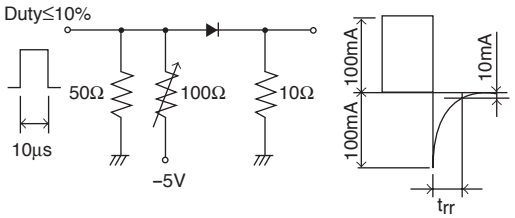
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Electrical Characteristics at Ta=25°C (Value per element)

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=0.1mA	15			V
Forward Voltage	V_F1	I_F=0.5A		0.43	0.48	V
	V_F2	I_F=1A		0.49	0.54	V
Reverse Current	I_R	V_R=6V			3.0	μA
Interterminal Capacitance	C	V_R=10V, f=1MHz		20		pF
Reverse Recovery Time	t_{rr}	I_F=I_R=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	When mounted on ceramic substrate (600mm²×0.8mm)		185		°C / W

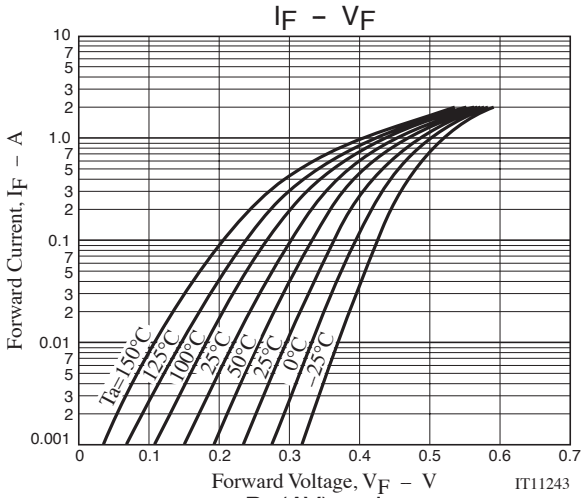
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

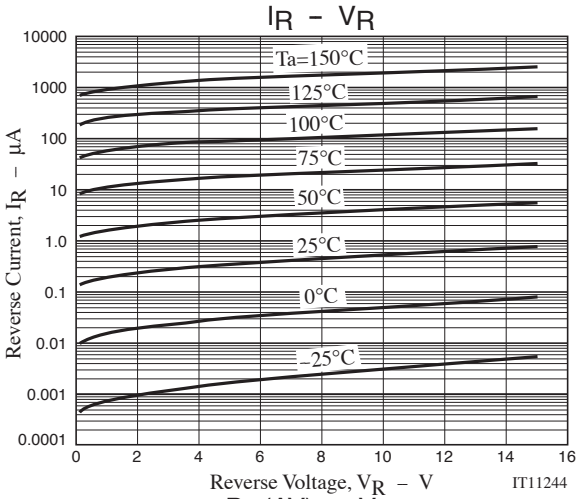
t_{rr} Test Circuit

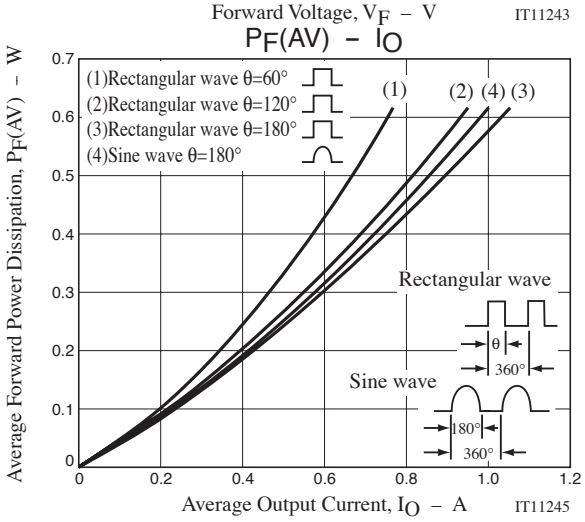


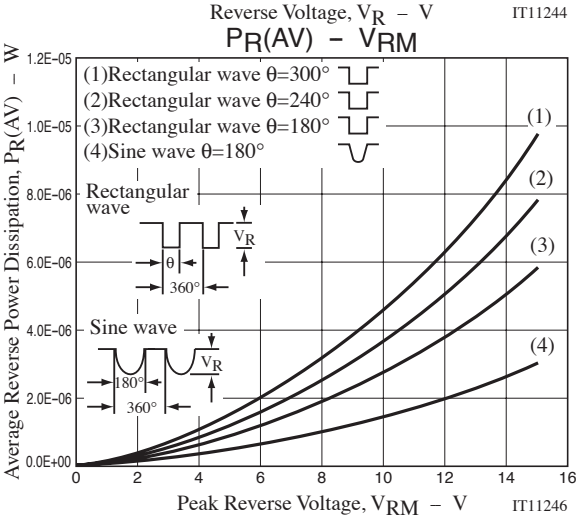
Ordering Information

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

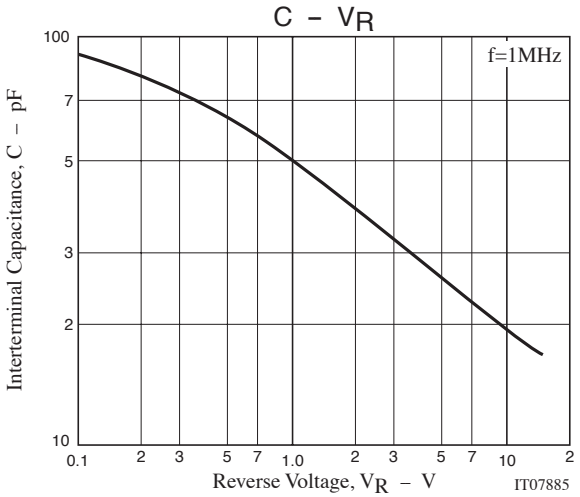


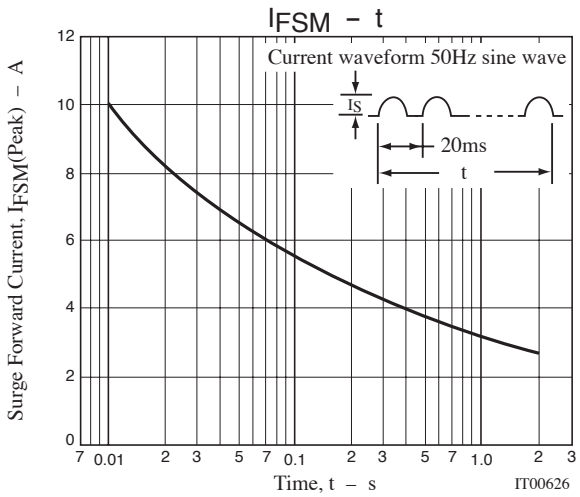






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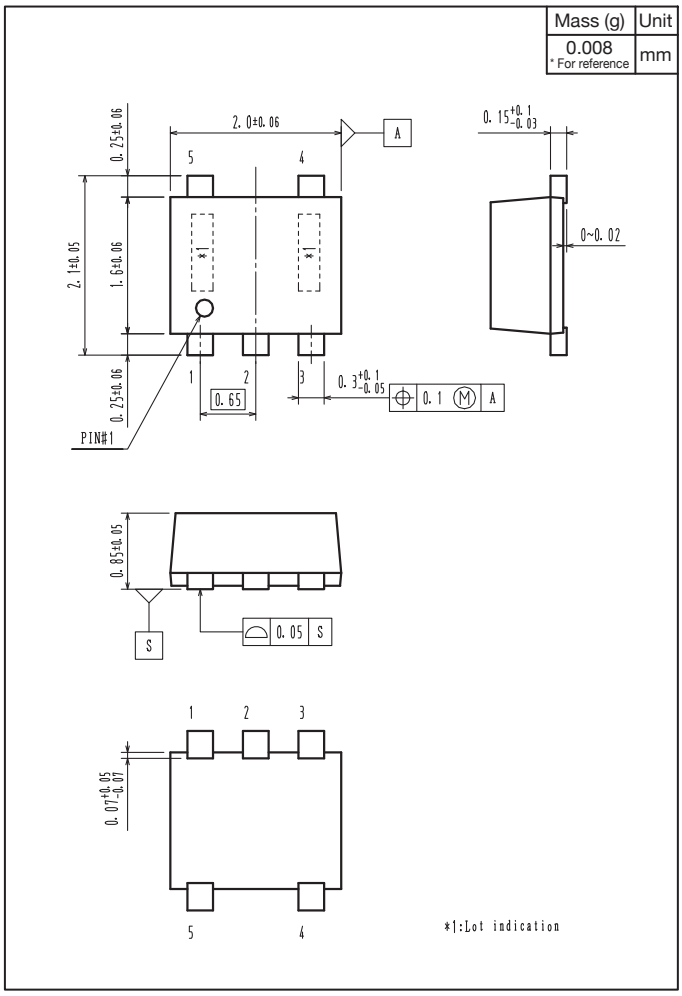




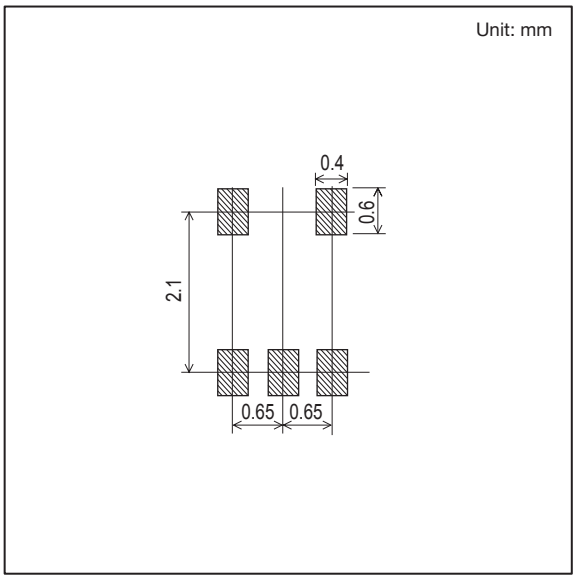
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Outline Drawing

SBE808-TL-E, SBE808-TL-W



Land Pattern Example



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