SBS817

ON Semiconductor®

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Schottky Barrier Diode

15V, 2A, Low VF, Non-Monolithic Dual EMH8 Common Cathode

Applications

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

Features

- · Low switching noise
- Low forward voltage (IF=2.0A, VF max=0.46V)
- Ultrasmall package permitting applied sets to be small and slim (Mounting height 0.75mm)

Specifications

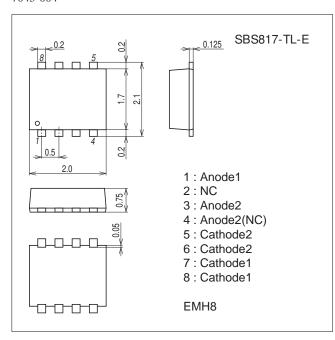
Absolute Maximum Ratings at Ta=25°C (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		15	٧
Average Output Current	IO		2.0	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj		-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) 7045-004



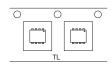
Product & Package Information

Package

• JEITA, JEDEC

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

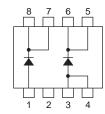
Packing Type: TL



Marking



Electrical Connection



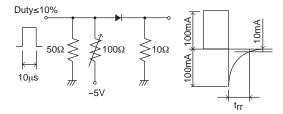
September, 2013

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

Parameter	Symbol	Conditions	Ratings			Unit
	Syllibol	Conditions	min	typ	max	Uill
Reverse Voltage	VR	I _R =1mA	15			٧
Forward Voltage	V _F 1	IF=1.0A		0.33	0.39	V
	V _F 2	IF=2.0A		0.39	0.46	V
Reverse Current	IR	V _R =7.5V			300	μΑ
Interterminal Capacitance	С	V _R =10V, f-1MHz		35		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 (900mm ² ×0.8mm)		65		°C / W

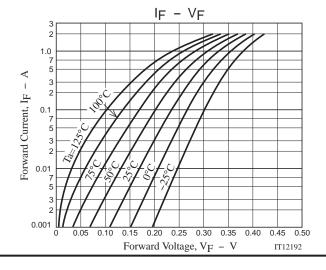
^{*:} The absolute maximum ratings and electrical characteristics refer to those between Terminal 1 and Terminal 7 (or 8), and between Terminal 3 and Terminal 5 (or 6).

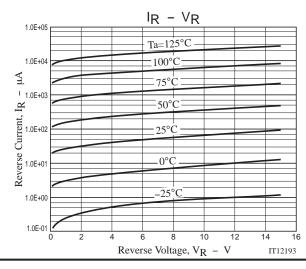
trr Test Circuit

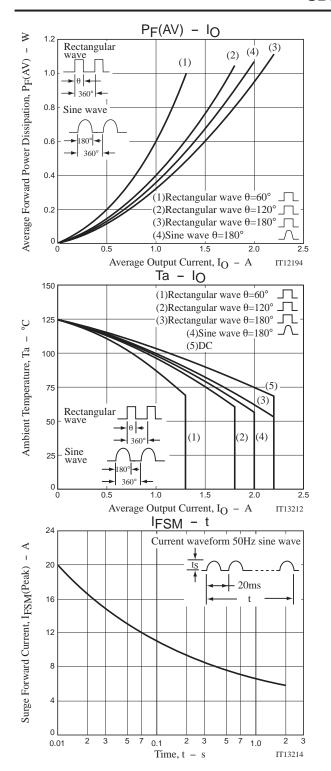


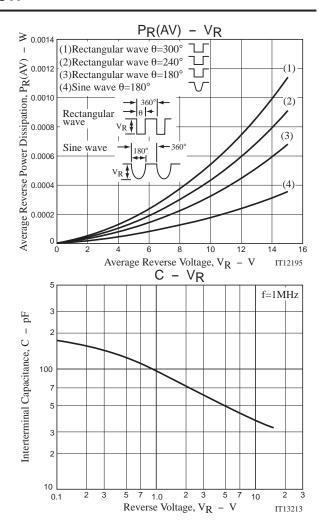
Ordering Information

Device	Package	Shipping	memo	
SBS817-TL-E	EMH8	3,000pcs./reel	Pb Free	







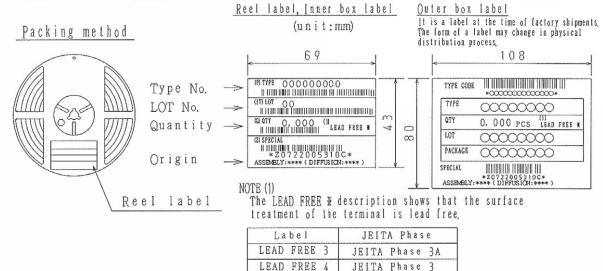


Embossed Taping Specification

SBS817-TL-E

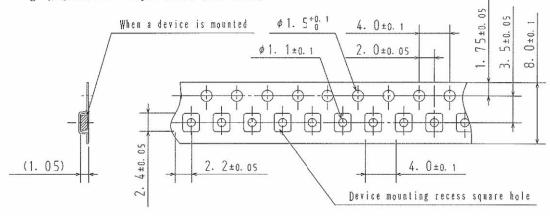
1. Packing Format

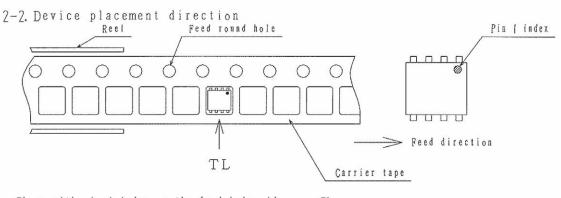
	Carrier Tape	Maximum Number of devices contained (pcs)			Packing format		
	Type	Reel	Inner box	Outer box	Inner BOX (C-1)	Outer BOX (A-7)	
EMH8	MCP4	3, 000	15, 000	90,000	5 reels contained	6 inner boxes contained	
					Dimensions:mm (external)	Dimensions:mm (external)	
					183×72×185	440×195×210	



2. Taping configuration

7-1. Carrier tape size (unit:mm)

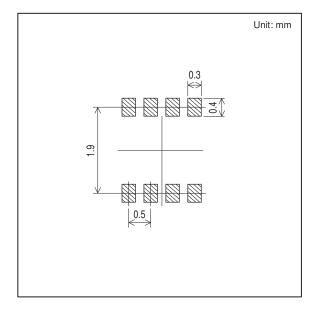




Outline Drawing

SBS817-TL-E

Land Pattern Example



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