imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SBE812

Schottky Barrier Diode 60V, 1A, Low IR, Non-Monolithic Dual VEC8 Common Cathode



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

Features

- · Small switching noise
- · Low leakage current and high reliability due to highly reliable planar structure
- · Ultrasmall package allows applied sets to be made small and thin

Specifications

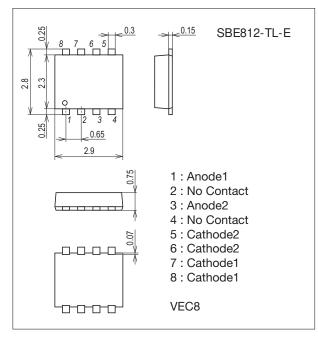
Absolute Maximum Ratings at Ta=25°C (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		60	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		65	V
Average Output Current	IO		1.0	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	A
Junction Temperature	Тј		-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) 7012-001



Product & Package Information

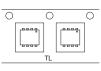
- Package
- JEITA, JEDEC
- Minimum Packing Quantity : 3,000 pcs./reel

: VEC8

Marking

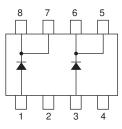
: -

Packing Type : TL





Electrical Connection

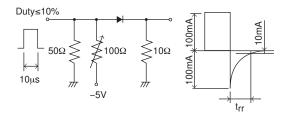


ON Semiconductor® http://onsemi.com

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

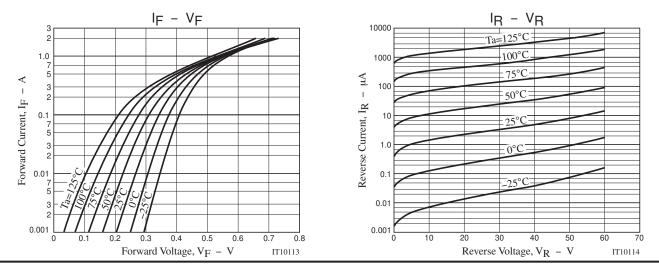
Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Unit
Reverse Voltage	VR	I _R =0.2mA	60			V
Forward Voltage	VF	IF=1A		0.55	0.60	V
Reverse Current	IR	V _R =30V			30	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		35		pF
Reverse Recovery Time	trr	IF=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)1	When Mounted in Cu-foiled area of 1.92mm ² x0.03mm	80			°C/W
		on glass epoxy substrate		00		0700
	Rth(j-a)2	When mounted on ceramic substrate (1000mm ² ×0.8mm)		75		°C / W

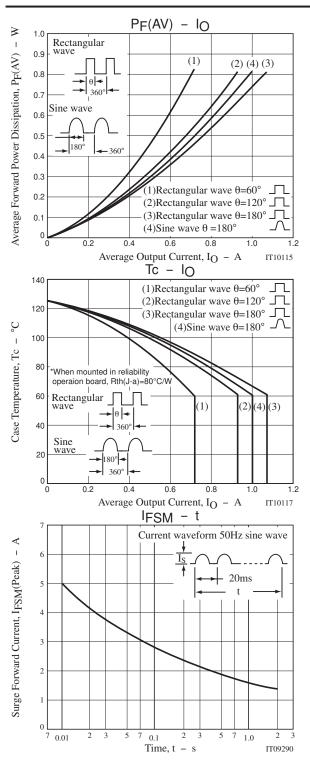
trr Test Circuit

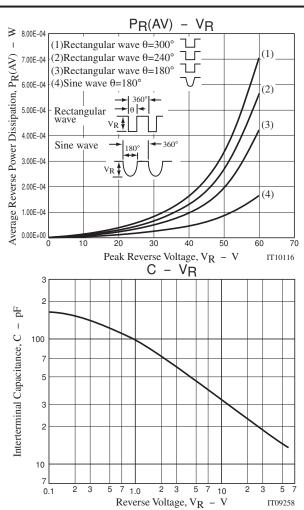


Ordering Information

Device	Package	Shipping	memo
SBE812-TL-E	VEC8	3,000pcs./reel	Pb Free

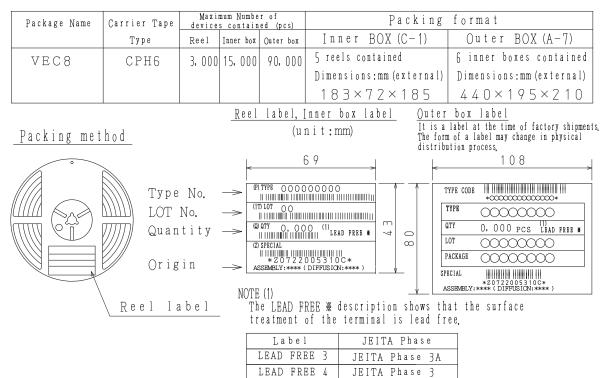






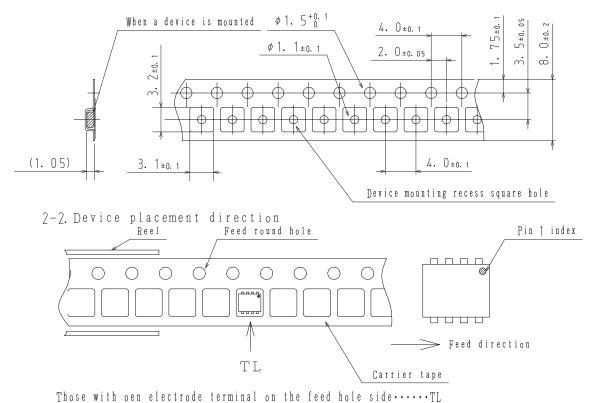
Taping Specification SBE812-TL-E

1. Packing Format

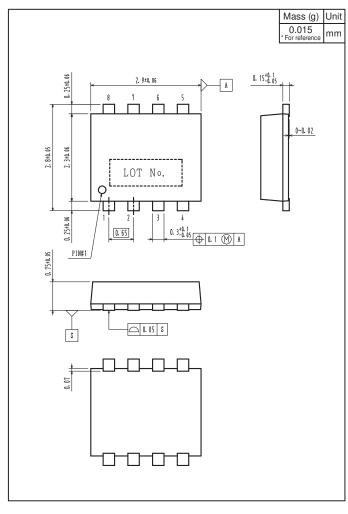


2. Taping configuration

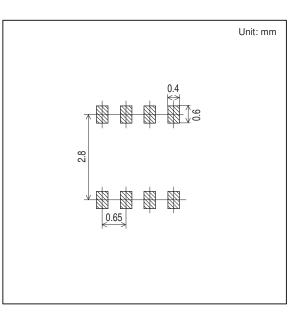
2-1. Carrier tape size (unit:mm)



Outline Drawing SBE812-TL-E



Land Pattern Example



SBE812

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