

SANYO Semiconductors DATA SHEET

SBE808 — Schottky Barrier Diode 15V, 1A Rectifier

Applications

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

Features

- · Small switching noise.
- · 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	٧
Nonrepetitive Peak Reverse Surge Voltage	VRSM		17	٧
Average Output Current	lo		1	А
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

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

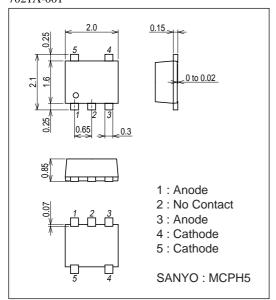
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	٧R	I _R =0.1mA	15			٧
Forward Voltage	V _F 1	IF=0.5A		0.43	0.48	٧
	V _F 2	IF=1A		0.49	0.54	٧
Reverse Current	IR	V _R =6V			3.0	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		20		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm ² X0.8mm)		185		°C/W

Marking : SE

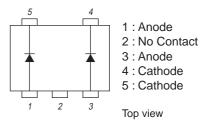
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Package Dimensions

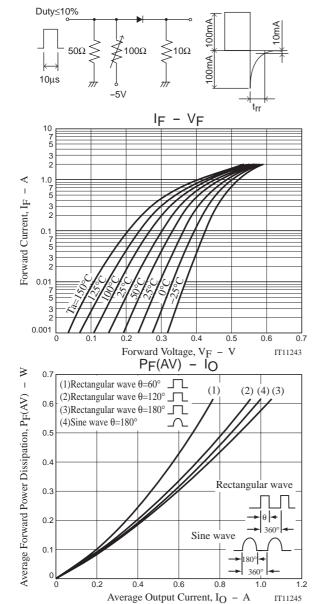
unit : mm (typ) 7021A-001

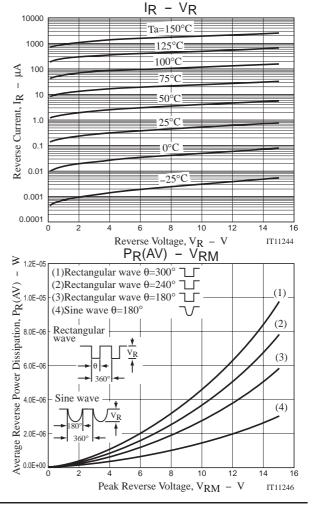


Electrical Connection

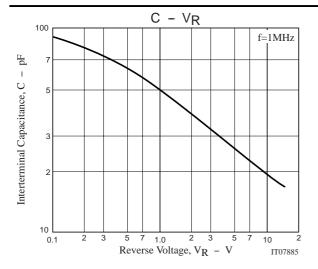


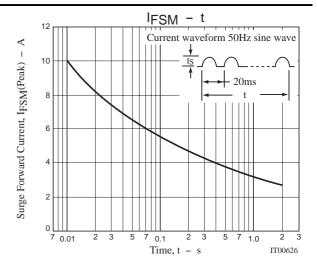
trr Test Circuit





SBE808





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