



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	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		17	V
Average Output Current	IO		1	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	A
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	
Reverse Voltage	VR	IR=0.1mA	15			V
Forward Voltage	VF1	IF=0.5A		0.43	0.48	V
	VF2	IF=1A		0.49	0.54	V
Reverse Current	IR	VR=6V			3.0	μA
Interterminal Capacitance	C	VR=10V, f=1MHz		20		pF
Reverse Recovery Time	trr	IF=IR=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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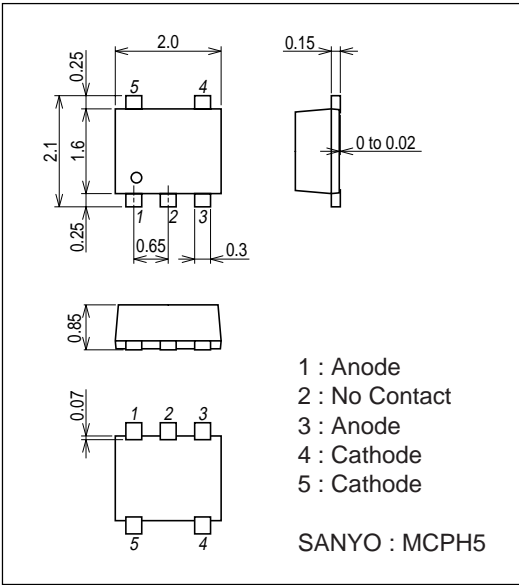
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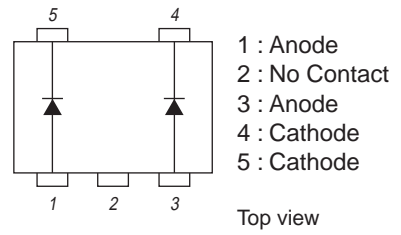
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Package Dimensions

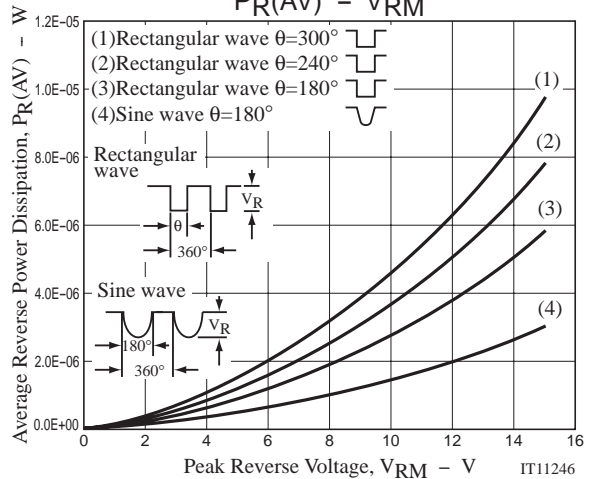
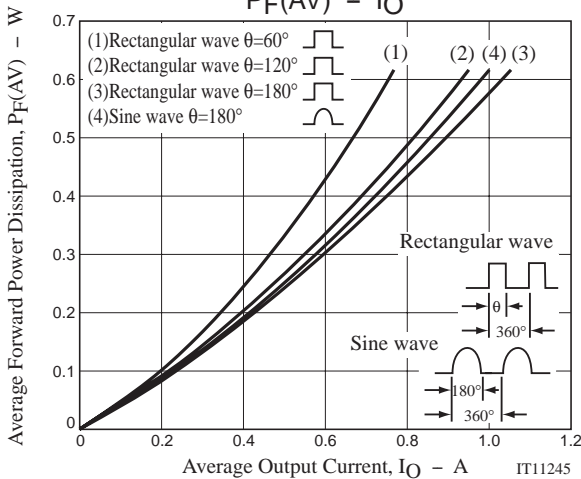
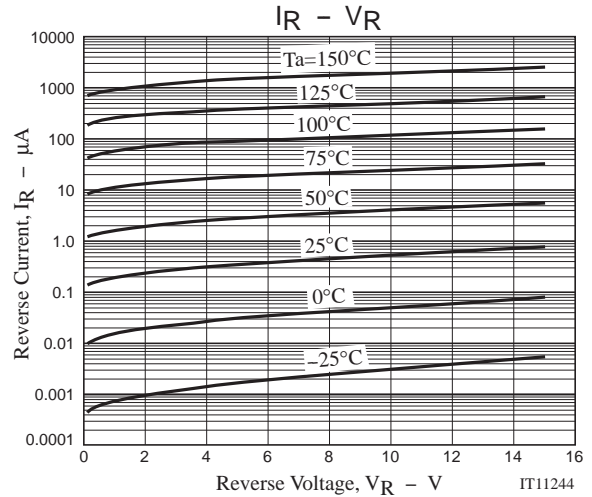
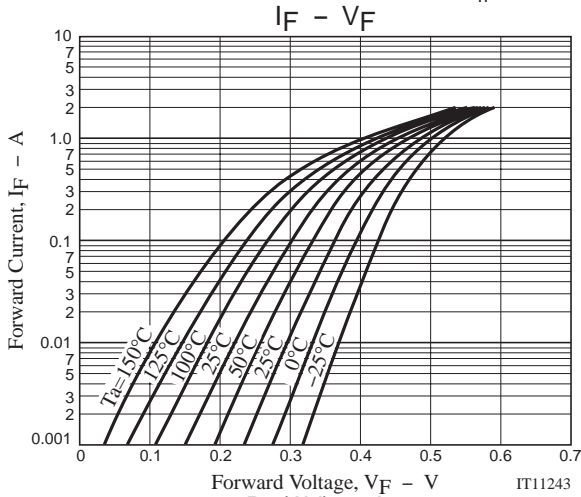
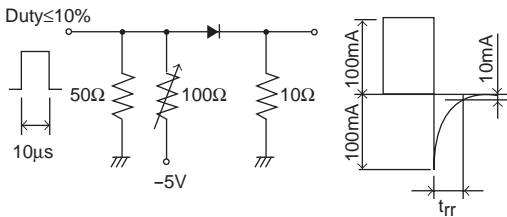
unit : mm (typ)
7021A-001

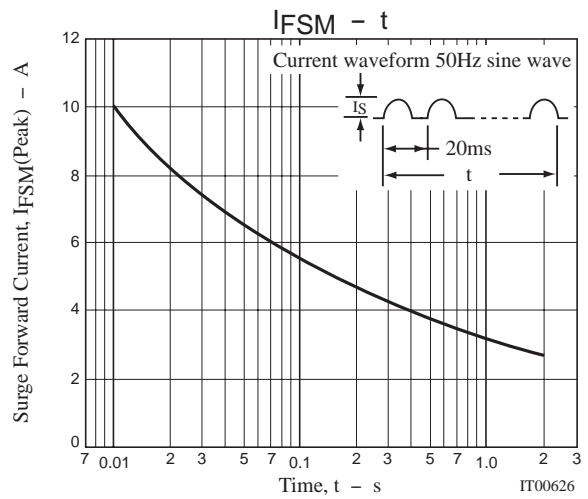
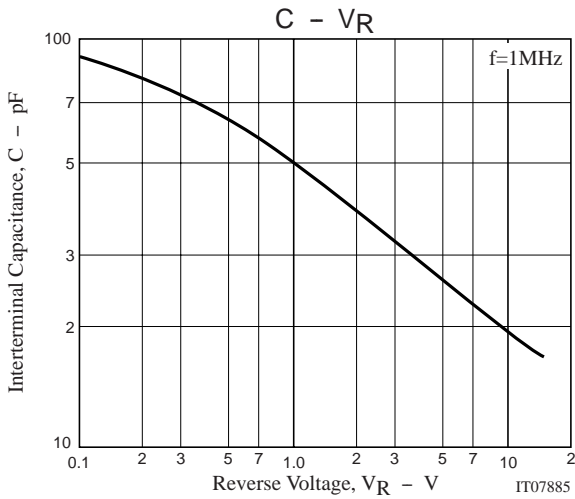


Electrical Connection



t_{rr} Test Circuit





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