

SANYO Semiconductors DATA SHEET

SBS010M — Schottky Barrier Diode 15V, 2A Rectifier

Applications

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

Features

- Low forward voltage (IF=0.5A, VF max=0.32V) (IF=1.0A, VF max=0.35V).
- · Ultrasmall-sized package permitting applied sets to be made small and slim (mounting height 0.85mm).

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		15	V
Average Output Current	IO		2	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C

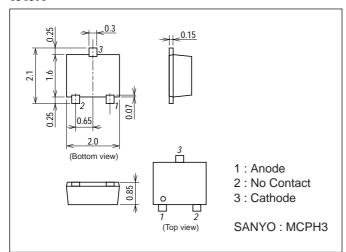
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Reverse Voltage	٧R	I _R =1.5mA	15			٧
Forward Voltage	V _F 1	I _F =0.5A		0.27	0.32	V
	VF2	IF=1A		0.3	0.35	V
Reverse Current	IR	V _R =6V			600	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		65		pF
Reverse Recovery Time	trr	IF=IR=100mA, See specified Test Circuit.			15	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm ² X0.8mm)		105		°C / W

Marking : SE

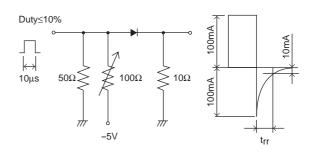
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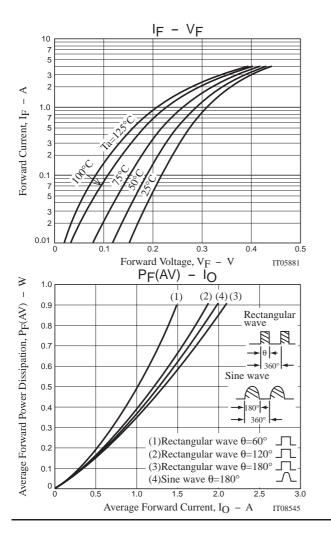
Package Dimensions

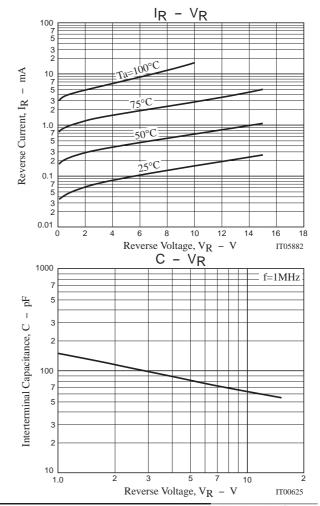
unit : mm 1305A

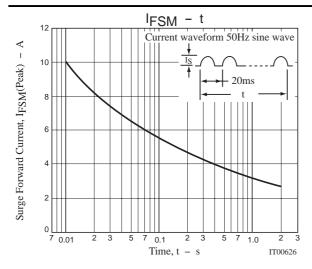


trr Test Circuit









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