

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

SB07-03C — Schottky Barrier Diode

30V, 700mA Rectifier

Applications

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

Features

- Low forward voltage (VF max=0.55V).
- Fast reverse recovery time (trr max=10ns).
- Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	lo		700	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	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	UTIIL
Reverse Voltage	VR	I _R =300μA	30			V
Forward Voltage	VF	IF=700mA			0.55	V
Reverse Current	IR	V _R =15V			80	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		25		pF
Reverse Recovery Time	trr	IF=IR=100mA, See spcifaied Test Circuit			10	ns

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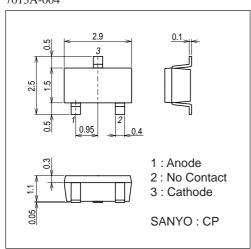
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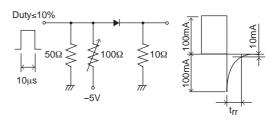
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Thermal Resistance	Rthj-a (1)			420		°C/W
	Rthj-a (2)	Mounted on Cu-foild area of 16mm ² X0.2mm on		330		°C/W
		glass epoxy board				

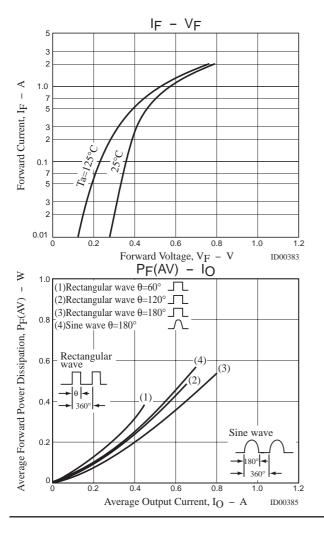
Package Dimensions

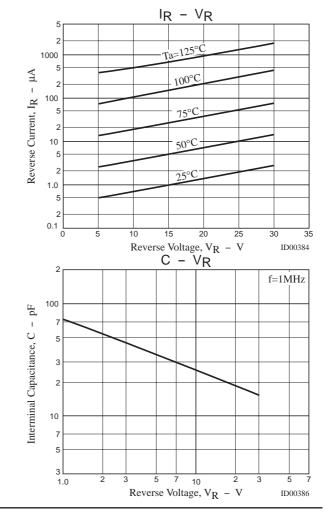
unit : mm (typ) 7013A-004

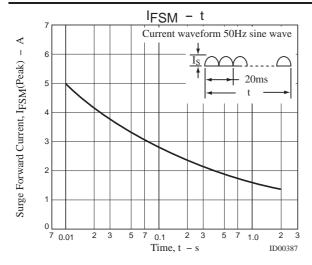


trr Test Circuit









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