

SANYO Semiconductors DATA SHEET

SB01-05C - Schottky Barrier Diode

Schottky Barrier Diode 50V, 100mA Rectifier

Applications

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

Features

- Low forward voltage (V_F max=0.55V).
- Fast reverse recorvery time (t_{rr} 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		50	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		55	V
Average Output Current	IO		100	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	2	А
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	Unit
Reverse Voltage	VR	IR=50μA, Tj=25°C	50			V
Forward Voltage	VF	IF=100mA, Tj=25°C			0.55	V
Reverse Current	IR	V _R =25V, Tj=25°C			15	μΑ
Interterminal Capacitance	С	VR=10V, f=1MHz		4.4		pF
Reverse Recovery Time	trr	IF=IR=10mA, Tj=25°C, See specified Test Circuit.			10	ns
Thermal Resistance	Rthj-a(1)			560		°C / W
	Dthi a(2)	Mounted in Cu-foiled area of 16mm ² X0.2mm		410		°C / W
	Rthj-a(2)	on glass epoxy board				

Marking : A

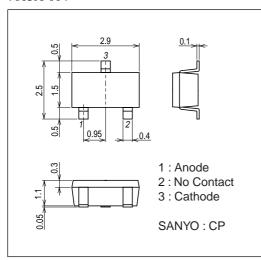
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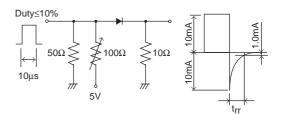
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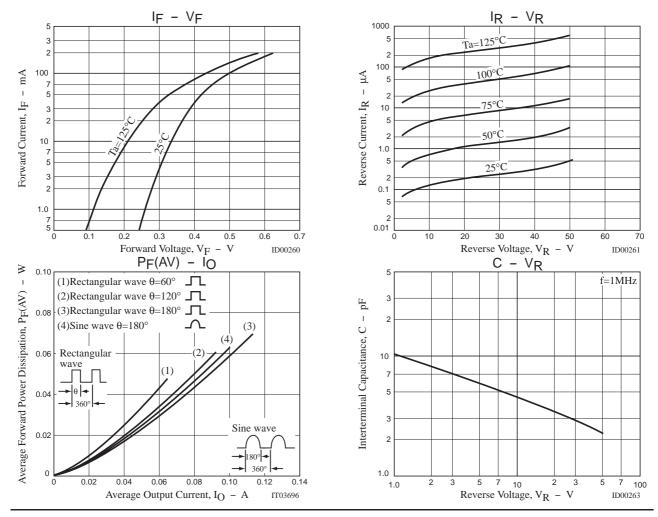
Package Dimensions

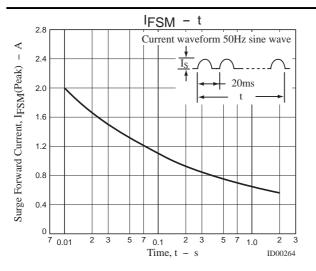
unit : mm 7013A-004



trr Test Circuit







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