

# SANYO Semiconductors DATA SHEET



Schottky Barrier Diode (Twin Type • Cathode Common) 30V, 200mA Rectifier

# **Applications**

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

## Features

- Low forward voltage (VF max=0.55V).
- Fast reverse recorvery time (t<sub>rr</sub> 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 (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	IO		200	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 (Value per element)

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	
Reverse Voltage	VR	IR=50μA	30			V
Forward Voltage	VF	IF=200mA			0.55	V
Reverse Current	IR	V <sub>R</sub> =15V			15	μΑ
Interterminal Capacitance	С	VR=10V, f=1MHz		7.1		pF
Marking · SE			-	C	ontinued or	nevt nage

Marking : SE

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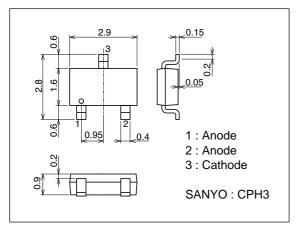
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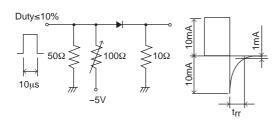
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Reverse Recovery Time	trr	IF=IR=10mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	When mounted on ceramic substrate (250mm <sup>2</sup> ×0.8mm)		280		°C/W

## Package Dimensions

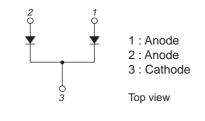
unit : mm (typ) 7015A-002

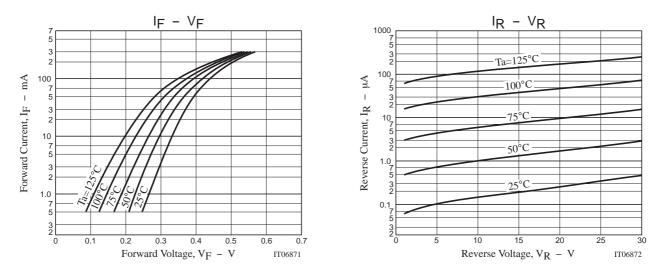


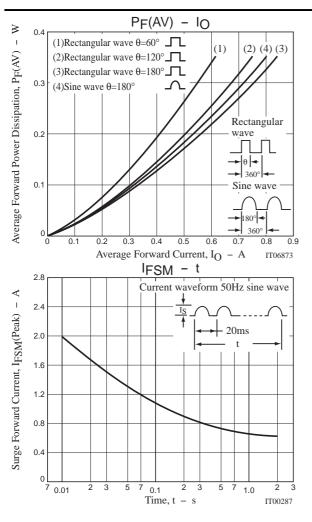
# trr Test Circuit

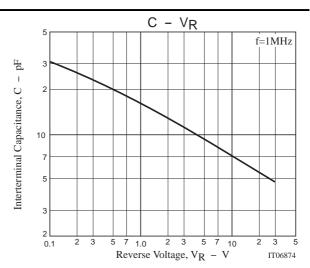


## **Electrical Connection**









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