

# SANYO Semiconductors

DATA SHEET

An ON Semiconductor Company



Schottky Barrier Diode 90V, 200mA Rectifier

# Applications

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

### Features

- Low forward voltage ( $V_F$  max=0.7V).
- 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

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		90	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		95	V
Average Output Current	IO		200	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	A
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
			min	typ	max	Onit
Reverse Voltage	VR	IR=200μA	90			V
Forward Voltage	VF	IF=200mA			0.7	V
Reverse Current	IR	V <sub>R</sub> =45V			50	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		10		pF
Reverse Recovery Time	t <sub>rr</sub>	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rthj-a(1)			420		°C / W
	Rthj-a(2)	Mounted in Cu-foiled area of 16mm <sup>2</sup> X0.2mm		330		°C / W
		on glass epoxy board				

Marking : D

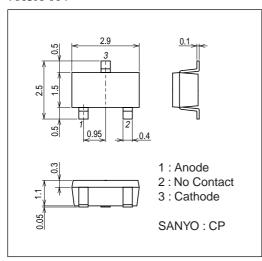
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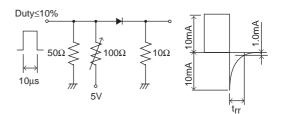
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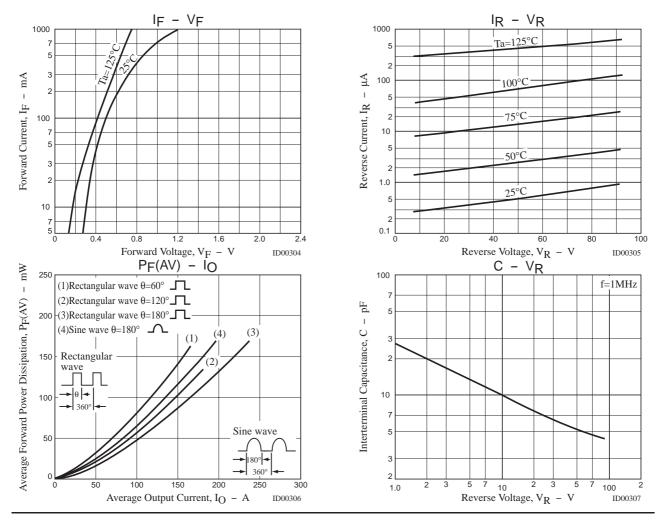
#### **Package Dimensions**

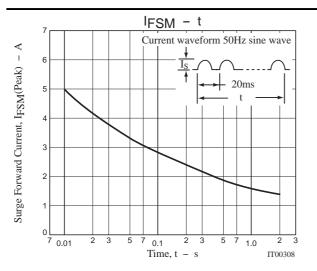
unit : mm 7013A-004



## trr Test Circuit







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