

SANYO Semiconductors

DATA SHEET

SS0503EC ---

Low VF Schottky Barrier Diode **30V, 0.5A Rectifier**

Applications

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

Features

- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.
- Ultraminiature (1008 size) and thin (0.6mm) leadless package.

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		30	V
Average Output Current	IO		0.5	А
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	Offic
Reverse Voltage	VR	I _R =0.2mA	30			V
Forward Voltage	VF1	IF=0.1A		0.31	0.36	V
	V _F 2	IF=0.5A		0.51	0.56	V
Reverse Current	IR	V _R =15V			100	μΑ
Interterminal Capacitance	С	VR=10V, f=1MHz		6		pF
Reverse Recovery Time	trr	IF=IR=100mA, See specified Test Circuit.			10	ns
Therrmal Resistance	Rth(j-a)	Mounted in Cu-foiled area of 0.72mm ² ×0.03mm		70		°C / W
		on glass epoxy board				

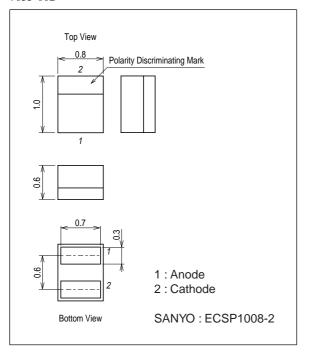
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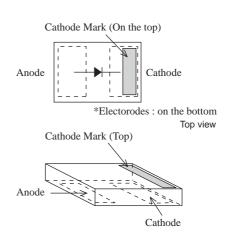
Package Dimensions

unit : mm (typ) 7035-002

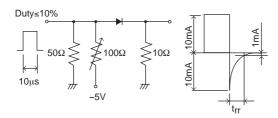


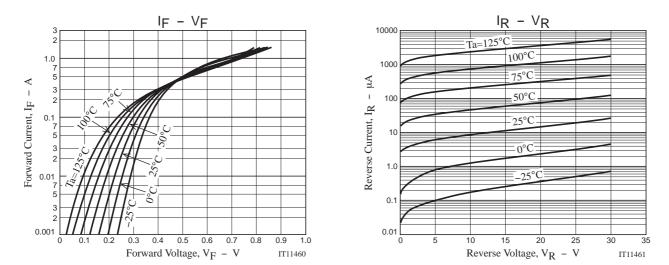
Electrical Connection

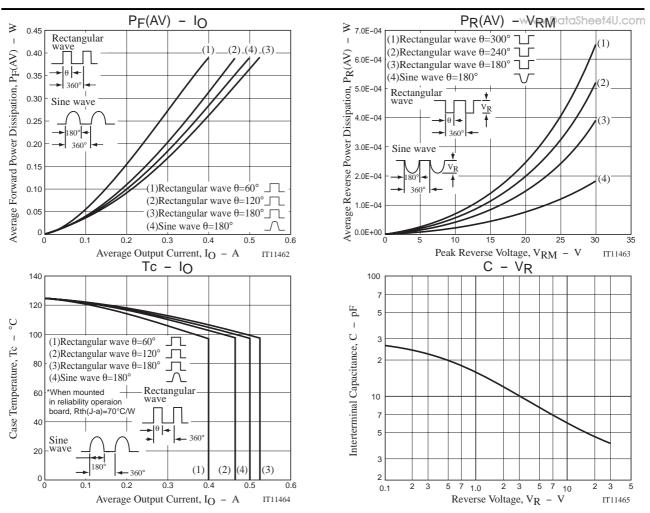
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trr Test Circuit







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