

SANYO Semiconductors DATA SHEET

SS3003CH — Low VF Schottky Barrier Diode 30V, 3.0A Rectifier

Applications

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

Features

- · Small switching noise.
- Low forward voltage (IF=3A, VF max=0.42V).
- · Ultrasmall package permitting applied sets to be small and slim.

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		3.0	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	20	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C

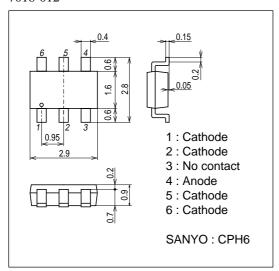
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I _R =2.0mA	30			V
Forward Voltage	VF	IF=2.0A		0.335	0.385	V
		IF=3.0A		0.37	0.42	V
Reverse Current	IR	V _R =15V			1.4	mA
Interterminal Capacitance	С	V _R =10V, f=1MHz		90		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA			20	ns
Thermal Resistance	Rth(j-a)	Mouted on a ceramic board (900mm ² X0.8mm)		50		°C / W

Marking: SG

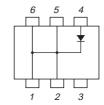
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Package Dimensions

unit: mm 7018-012



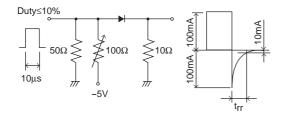
Electrical Connection

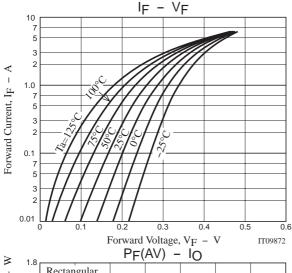


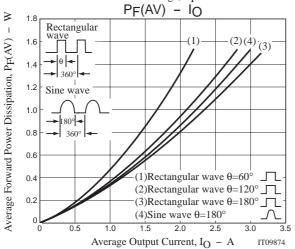
- 1: Cathode 2: Cathode 3: No Contact 4 : Anode
- 5: Cathode 6: Cathode

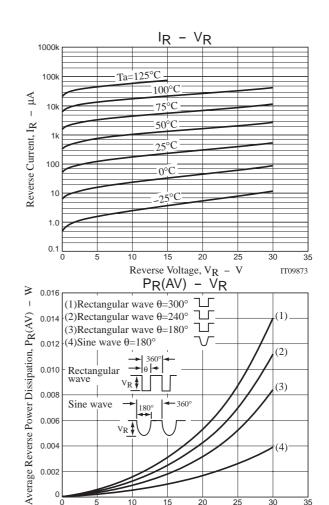
Top view

trr Test Circuit





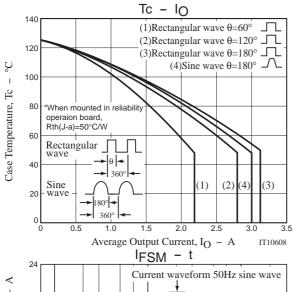


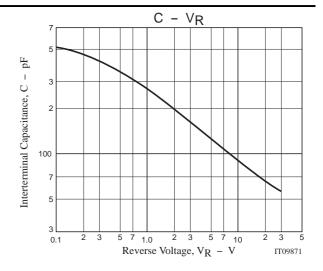


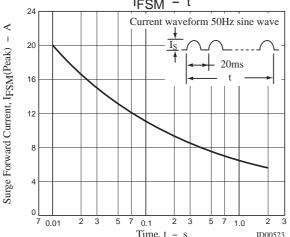
Average Reverse Voltage, $V_R - V$

0.002

SS3003CH







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