

SANYO Semiconductors

DATA SHEET

SS0310M-

Schottky Barrier Diode 100V, 0.3A Rectifier

Applications

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

Features

- · Low Switching noise.
- Low forward voltage (IF=0.3A, VF max=0.57V).
- · Ultrasmall package permitting SS0310M applied sets to be made small and slim.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		100	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		100	V
Average Output Current	IO		0.3	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	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
			min	typ	max	Unit
Reverse Voltage	VR	IR=0.5mA	100			V
Forward Voltage	VF	IF=0.3A		0.52	0.57	V
Reverse Current	IR	V _R =50V			600	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		20		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)1	Mounted in Cu-foiled area of 0.72mm ² X0.03mm		94.7		°C / W
		on glass epoxy board				
	Rth(j-a)2	Mounted on a ceramic board (1000mm ² X0.8mm)		67.7		°C / W

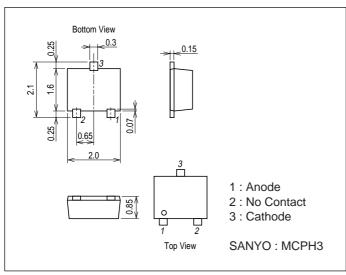
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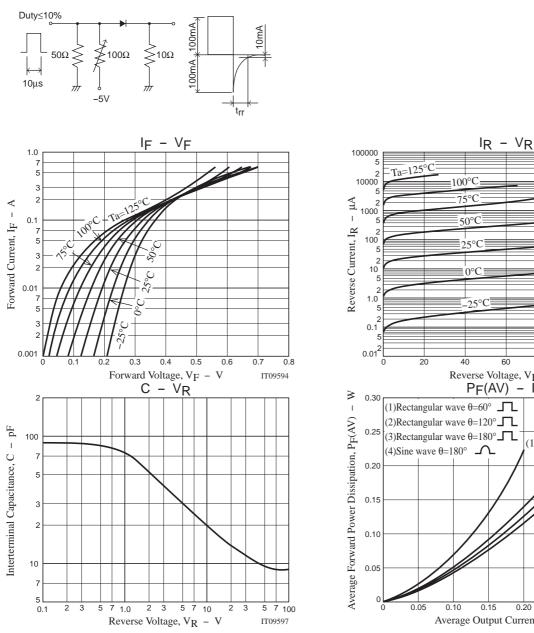
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Package Dimensions

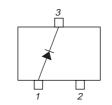
unit : mm 7019-001



trr Test Circuit

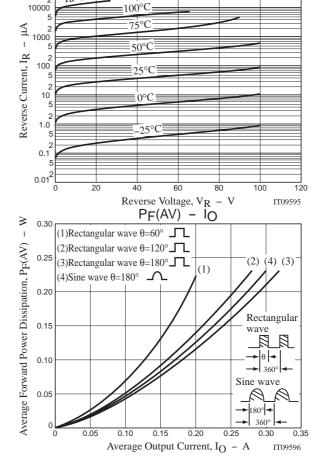


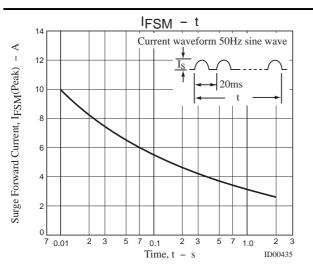
Electrical Connection WWW.DataSheet4U.com



1 : Anode 2 : No Contact 3 : Cathode

Top view





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