



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 ($I_F=0.3A$, $V_F \text{ max}=0.57V$).
- Ultrasmall package permitting SS0310M applied sets to be made small and slim.

Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		100	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		100	V
Average Output Current	I_O		0.3	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	10	A
Junction Temperature	T_J		-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=0.5mA$	100			V
Forward Voltage	V_F	$I_F=0.3A$		0.52	0.57	V
Reverse Current	I_R	$V_R=50V$			600	μA
Interterminal Capacitance	C	$V_R=10V$, $f=1MHz$		20		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100mA$, See specified Test Circuit.			10	ns
Thermal Resistance	$R_{th(j-a)1}$	Mounted in Cu-foiled area of $0.72mm^2 \times 0.03mm$ on glass epoxy board		94.7		$^\circ\text{C} / W$
	$R_{th(j-a)2}$	Mounted on a ceramic board ($1000mm^2 \times 0.8mm$)		67.7		$^\circ\text{C} / W$

Marking : SH

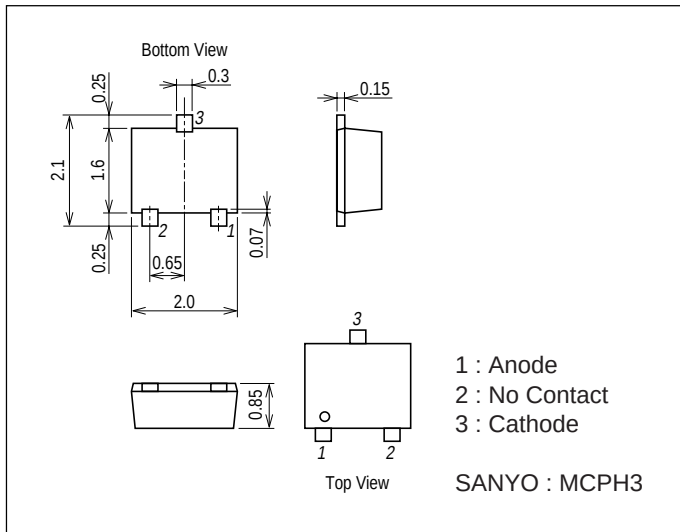
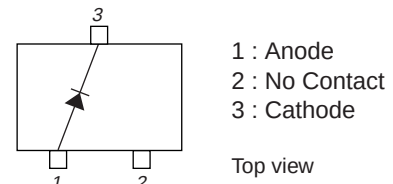
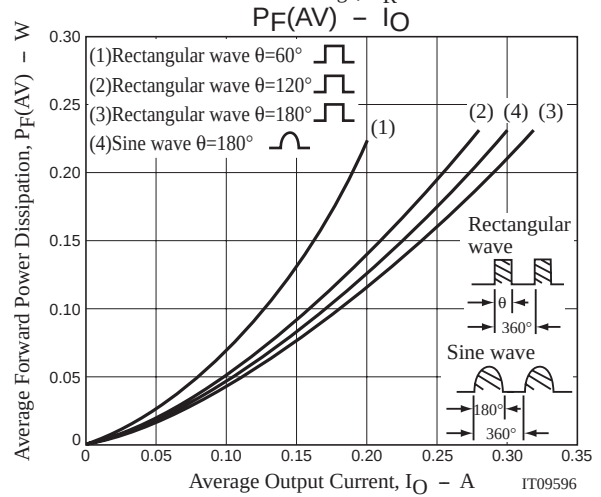
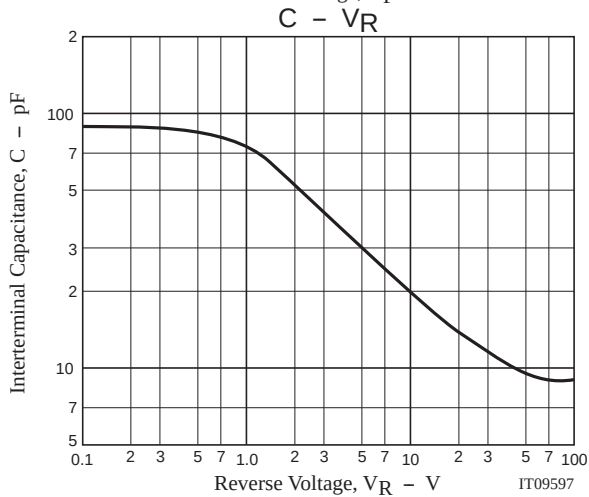
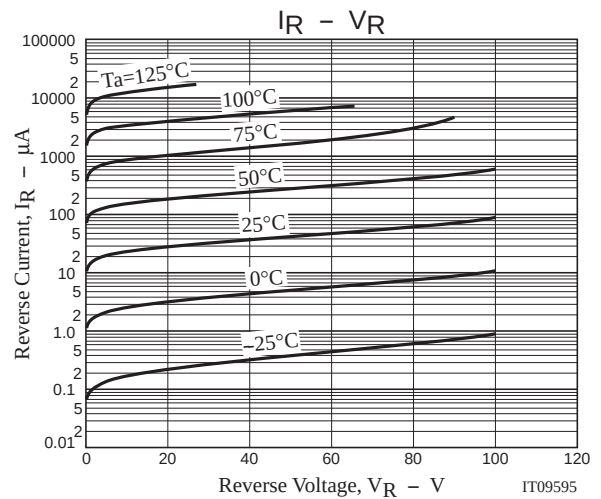
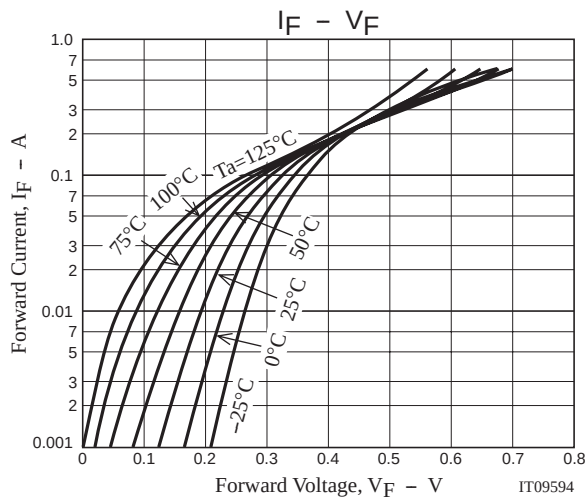
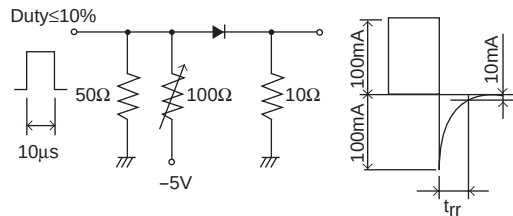
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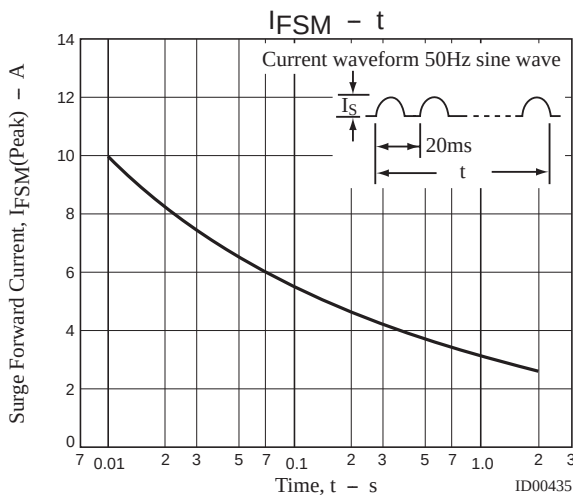
SANYO Electric Co.,Ltd. Semiconductor Company

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

Package Dimensions

unit : mm
7019-001

Electrical Connection www.DataSheet4U.com t_{rr} Test Circuit



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