



SANYO Semiconductors

## DATA SHEET

# SS20015M

Low  $V_F$  Schottky Barrier Diode  
**15V, 2.0A Rectifier**

## Applications

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

## Features

- Small switching noise.
- Low forward voltage ( $I_F=2A$ ,  $V_F$  max=0.43V).
- Ultrasmall package permitting applied sets to be small and slim (mounting height 0.85mm).

## Specifications

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

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		15	V
Nonrepetitive Peak Reverse Surge Voltage	$V_{RSM}$		15	V
Average Output Current	$I_O$	Mounted on a ceramic board (500mm <sup>2</sup> X0.8mm)	2.0	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	$V_R$	$I_R=3mA$	15			V
Forward Voltage	$V_F$	$I_F=2.0A$			0.44	V
Reverse Current	$I_R$	$V_R=6V$			325	$\mu\text{A}$
Interterminal Capacitance	C	$V_R=10V$ , $f=1MHz$		27		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=100mA$ , See specified Test Circuit.			10	ns
Thermal Resistance	$R_{th(j-a)}$	Mounted on a ceramic board (500mm <sup>2</sup> X0.8mm)		70		$^\circ\text{C} / W$

Marking : SP

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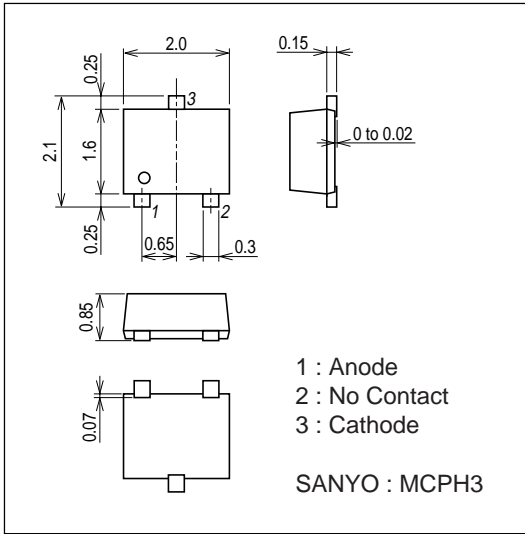
**SANYO Semiconductor Co., Ltd.**

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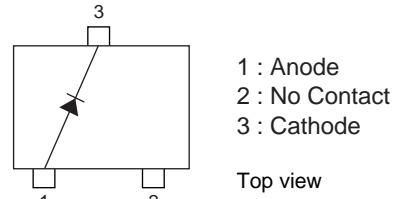
# SS20015M

## Package Dimensions

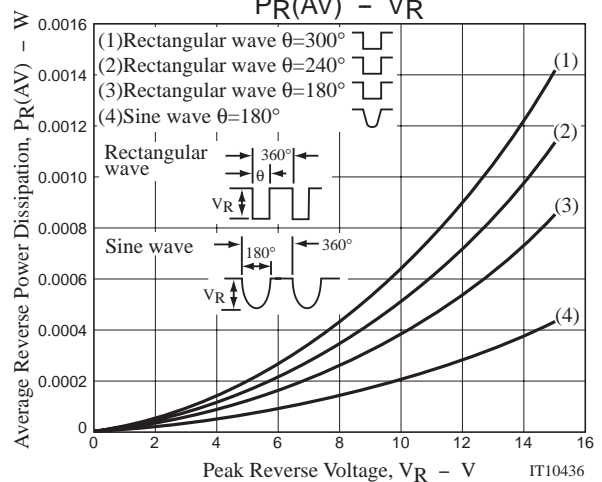
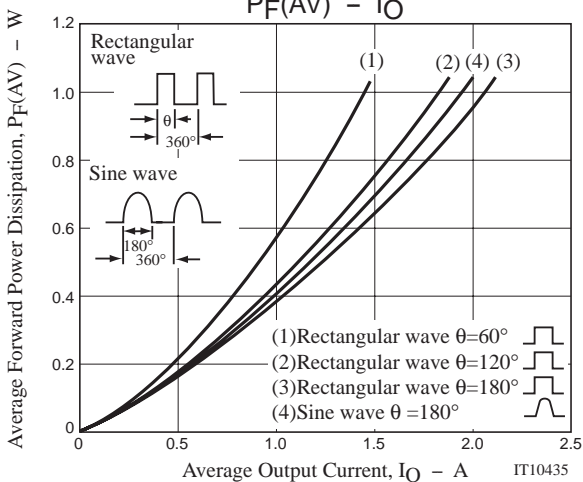
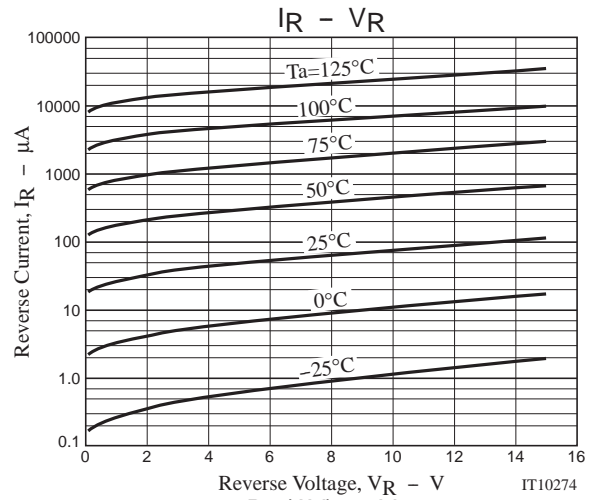
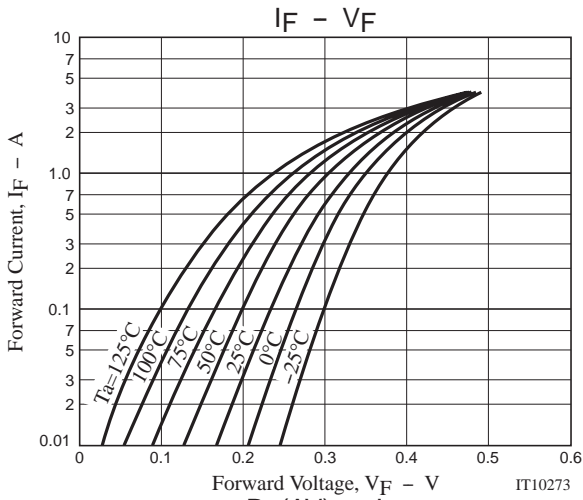
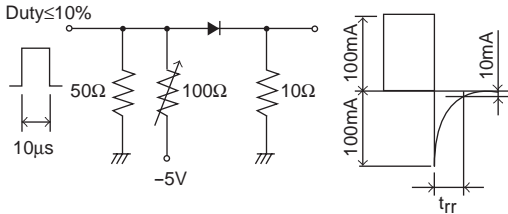
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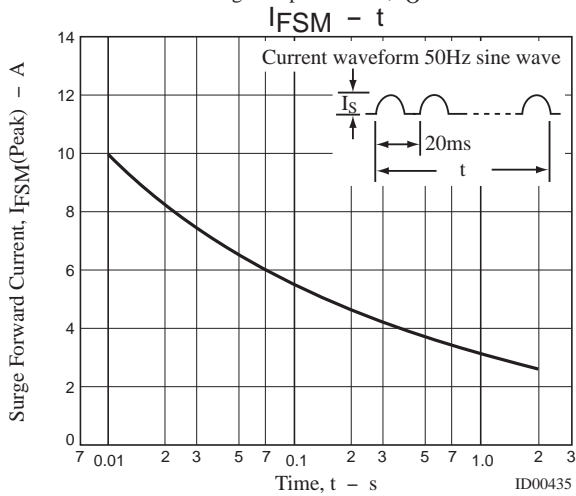
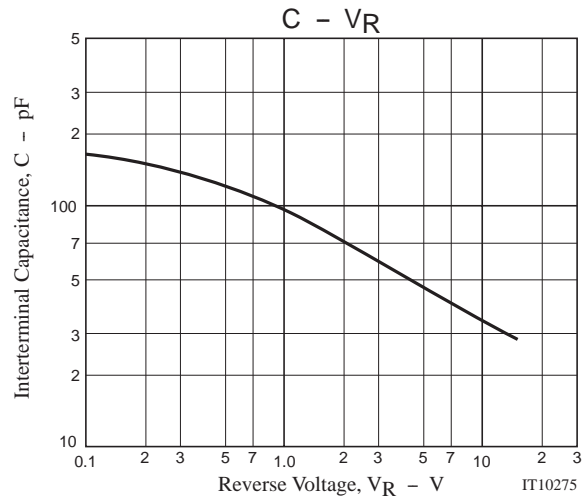
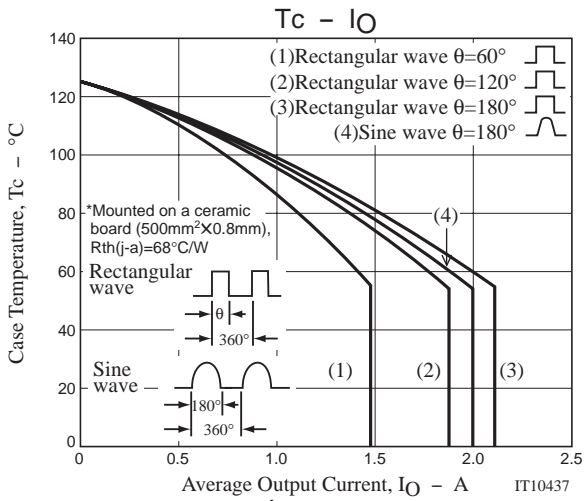


## Electrical Connection



## t<sub>rr</sub> Test Circuit





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