



SANYO Semiconductors

DATA SHEET

SB20015M

Low I_R Schottky Barrier Diode
15V, 2.0A Rectifier

Applications

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

Features

- Small switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.
- 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}		17	V
Average Output Current	I_O	Mounted on a ceramic board (500mm ² 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	$I_R=0.2\text{mA}$	15			V
Forward Voltage	V_F	$I_F=2.0\text{A}$			0.55	V
Reverse Current	I_R	$V_R=7.5\text{V}$			6	μA
Interterminal Capacitance	C	$V_R=10\text{V}$, $f=1\text{MHz}$		27		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$, See specified Test Circuit.			10	ns
Thermal Resistance	$R_{th(j-a)}$	Mounted on a ceramic board (500mm ² X0.8mm)		70		$^\circ\text{C} / \text{W}$

Marking : SN

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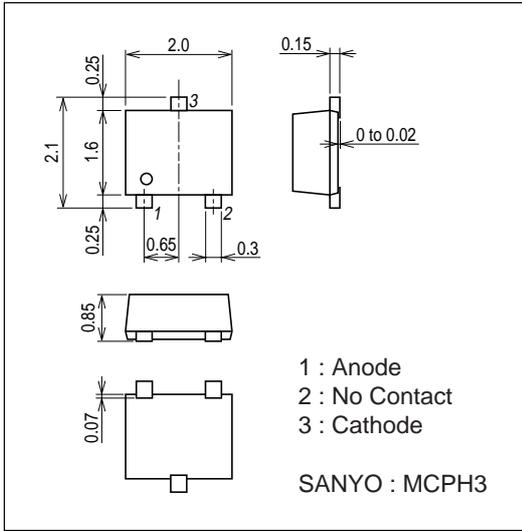
SANYO Semiconductor Co., Ltd.

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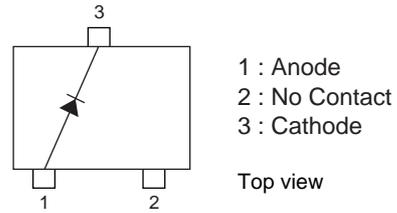
SB20015M

Package Dimensions

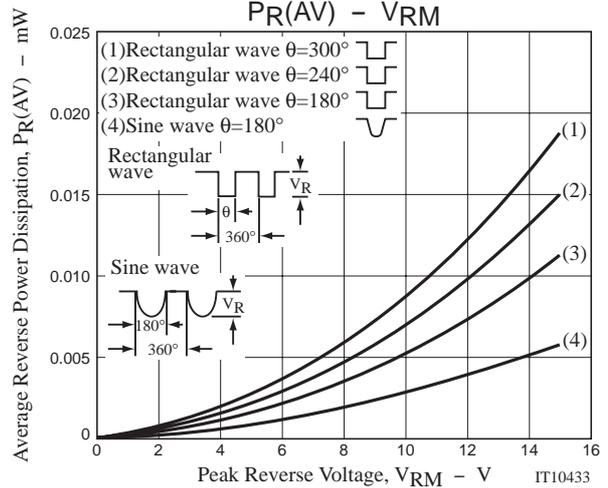
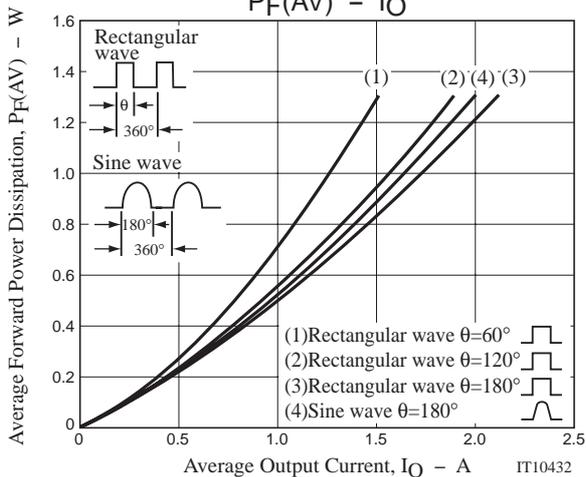
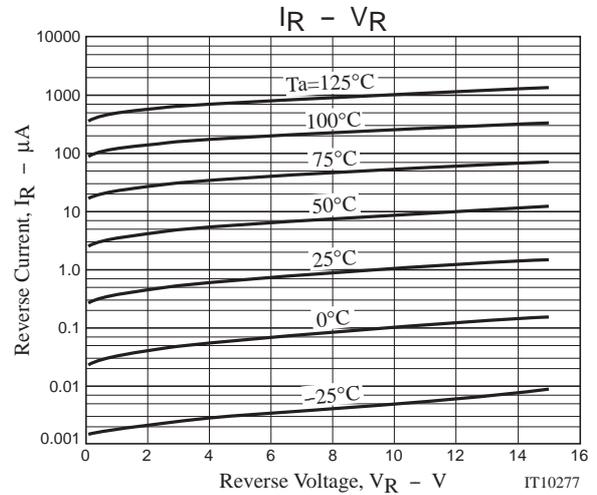
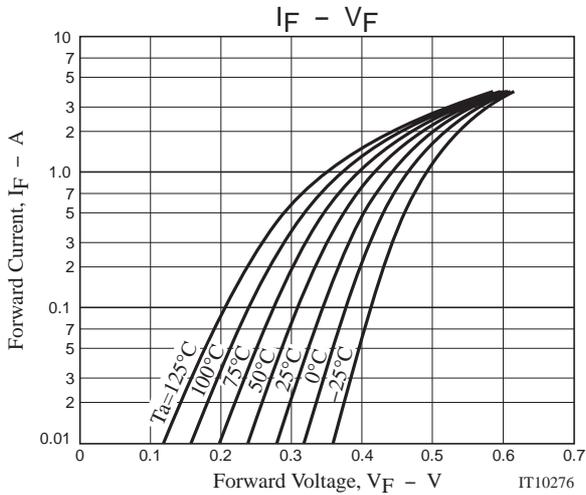
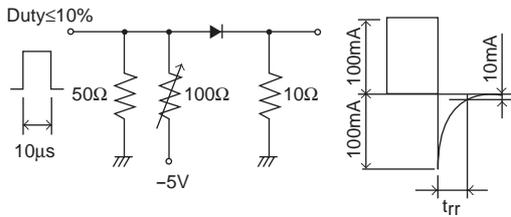
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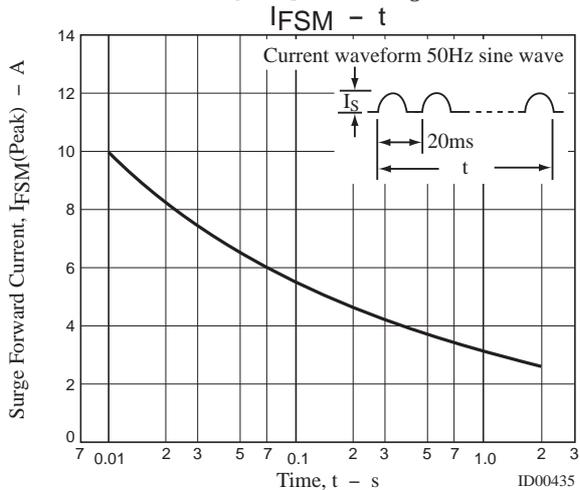
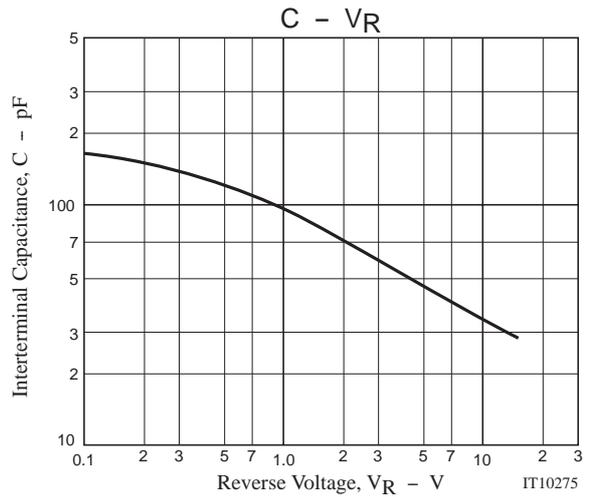
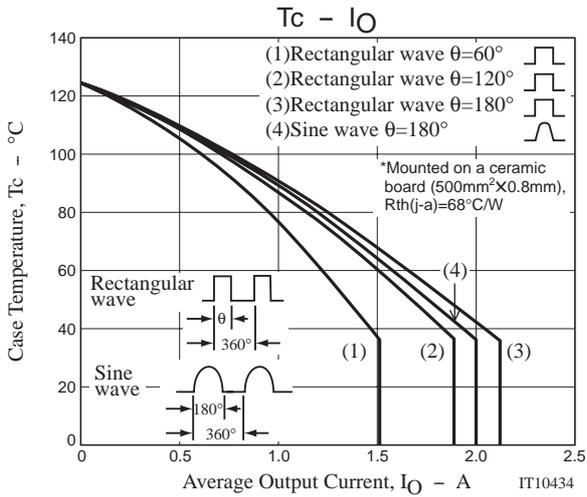


Electrical Connection



t_{rr} Test Circuit





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