


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 ($I_F=2A$, $V_F \text{ max}=0.43V$).
- 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 ² ×0.8mm)	2.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	10	A
Junction Temperature	T_J		-55 to +125	°C
Storage Temperature	T_{stg}		-55 to +125	°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	μA
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 ² ×0.8mm)		70		°C / W

Marking : SP

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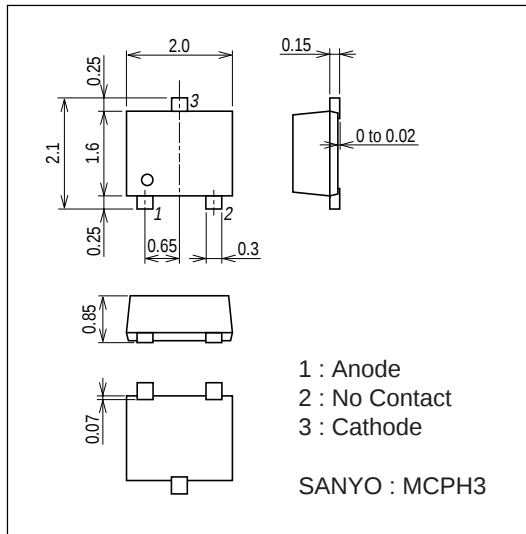
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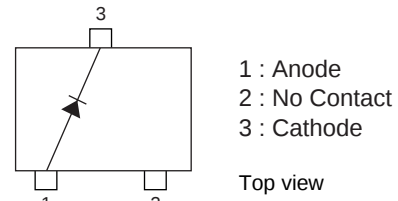
Package Dimensions

unit : mm

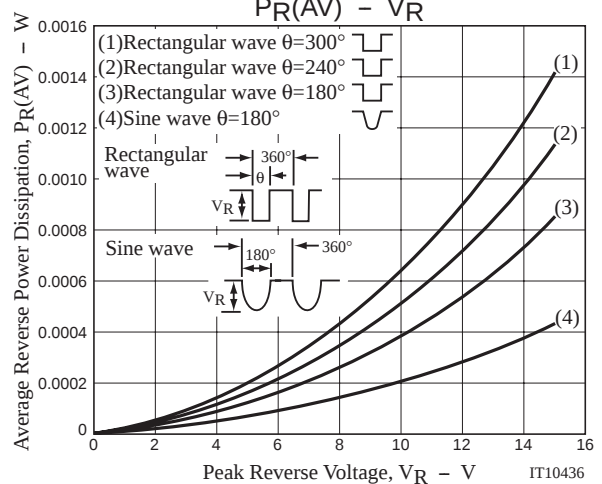
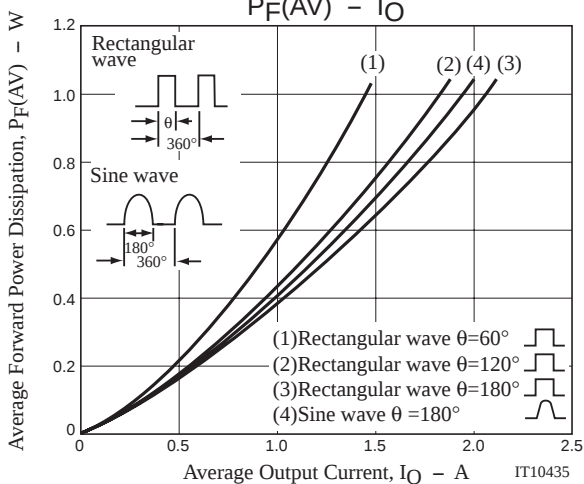
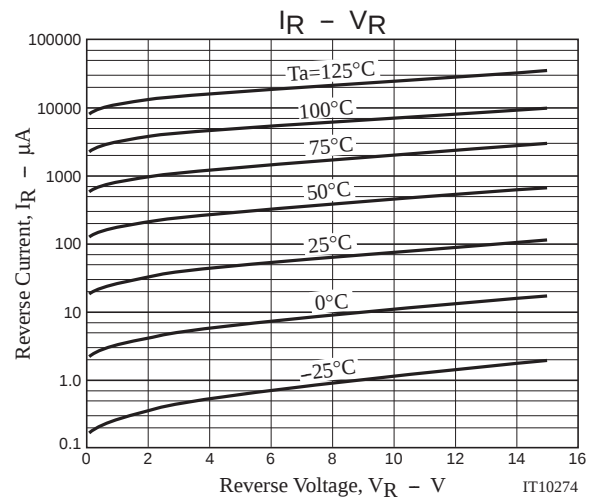
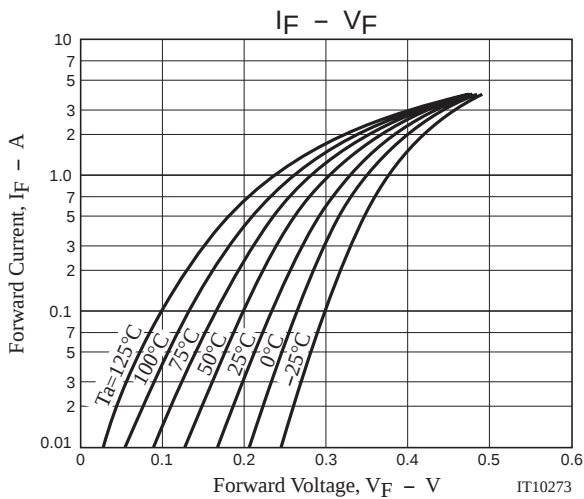
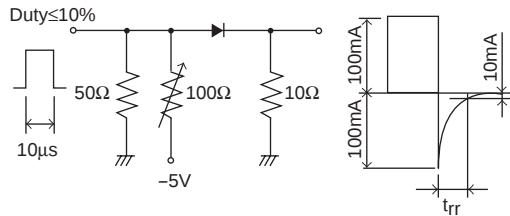
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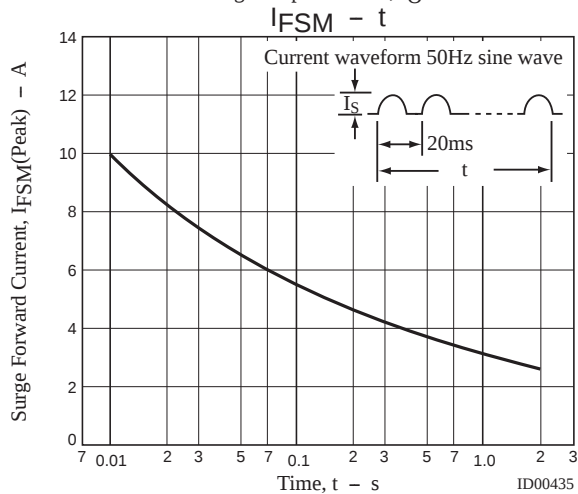
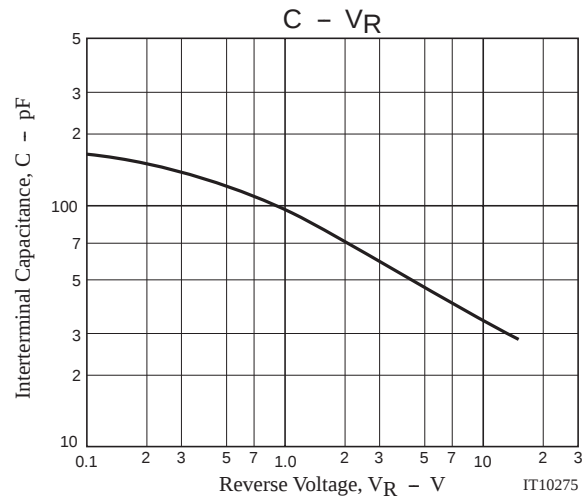
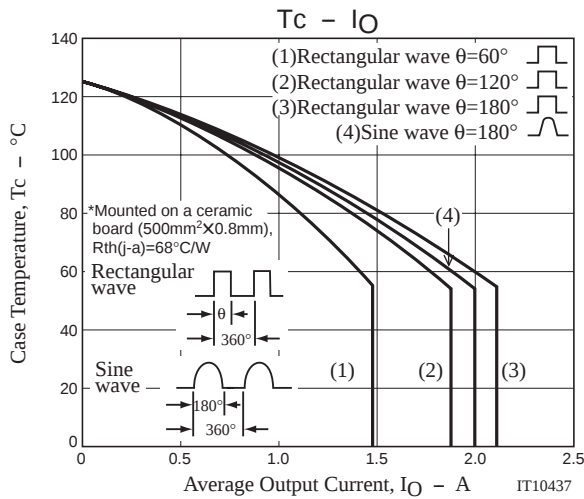


Electrical Connection



trr Test Circuit





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