



SANYO Semiconductors DATA SHEET

SS05015SH — Schottky Barrier Diode 15V, 0.5A Rectifier

Applications

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

Features

- Low forward voltage ($I_F=0.3A$, $V_F \text{ max}=0.4V$) ($I_F=0.5A$, $V_F \text{ max}=0.45V$).
- Ultrasmall package permitting applied sets to be 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}		15	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		15	V
Average Output Current	I_O		0.5	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	5	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	$I_R=50\text{mA}$	15			V
Forward Voltage	V_{F1}	$I_F=0.3A$		0.35	0.4	V
	V_{F2}	$I_F=0.5A$		0.4	0.45	V
Reverse Current	I_R	$V_R=6V$			90	μA
Interterminal Capacitance	C	$V_R=10V$, $f=1\text{MHz}$		13		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 (900mm ² X0.8mm)		120		$^\circ\text{C} / \text{W}$

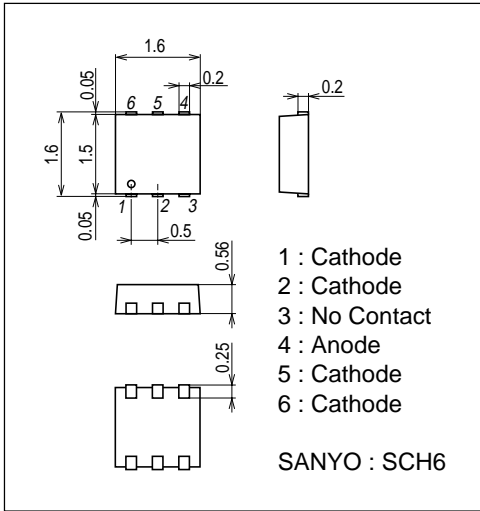
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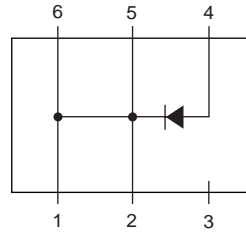
SS05015SH

Package Dimensions

unit : mm
7028-001



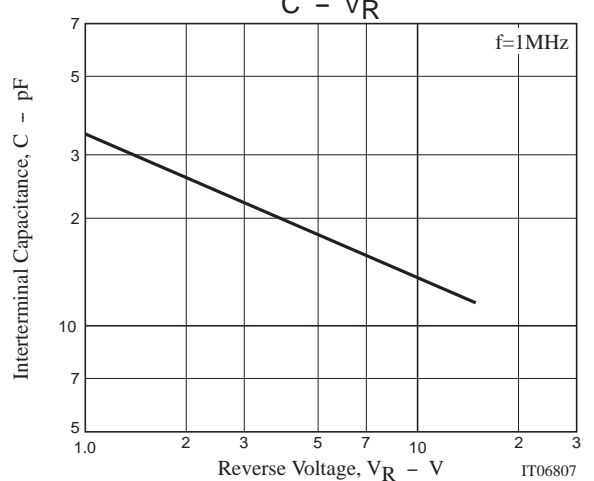
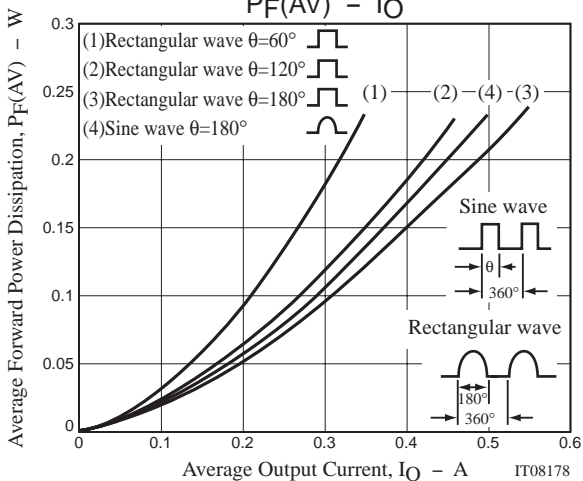
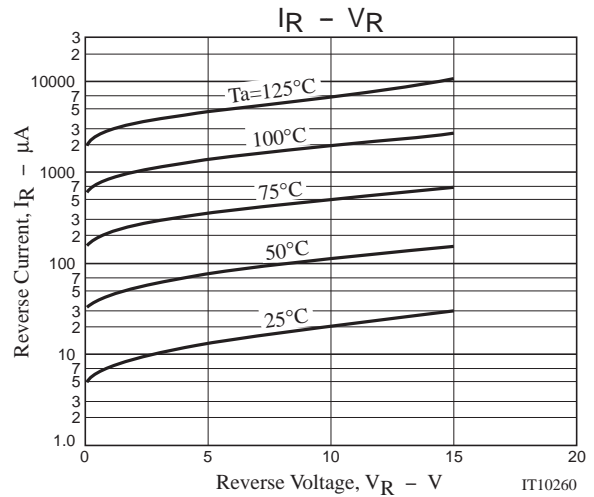
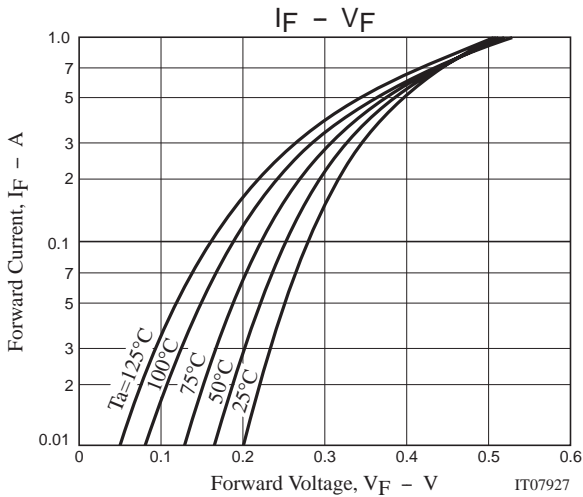
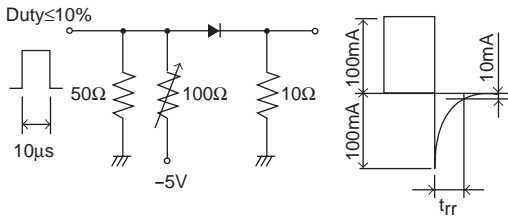
Electrical Connection

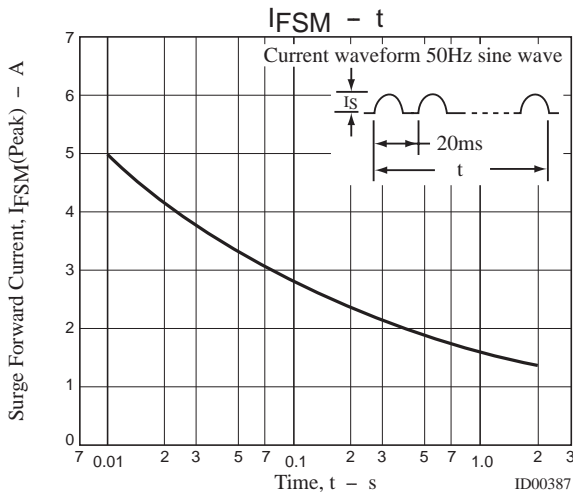


- 1 : Cathode
- 2 : Cathode
- 3 : No Contact
- 4 : Anode
- 5 : Cathode
- 6 : Cathode

Topview

t_{rr} Test Circuit





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