

SANYO Semiconductors DATA SHEET

SS05015SH-

Schottky Barrier Diode

15V, 0.5A Rectifier

Applications

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

Features

- Low forward voltage (IF=0.3A, VF max=0.4V) (IF=0.5A, VF max=0.45V).
- · Ultrasmall package permitting applied sets to be small and slim.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	٧
Nonrepetitive Peak Reverse Surge Voltage	VRSM		15	V
Average Output Current	ΙO		0.5	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C

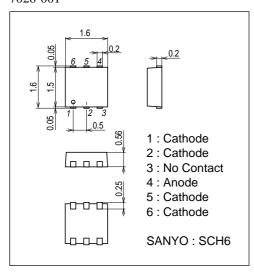
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oill
Reverse Voltage	VR	I _R =50mA	15			V
Forward Voltage	V _F 1	I _F =0.3A		0.35	0.4	V
	V _F 2	I _F =0.5A		0.4	0.45	V
Reverse Current	IR	V _R =6V			90	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		13		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (900mm ² X0.8mm)		120		°C / W

Marking: SA

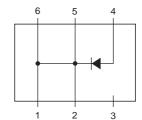
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Package Dimensions

unit: mm 7028-001



Electrical Connection

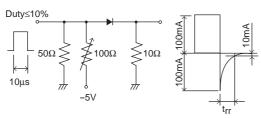


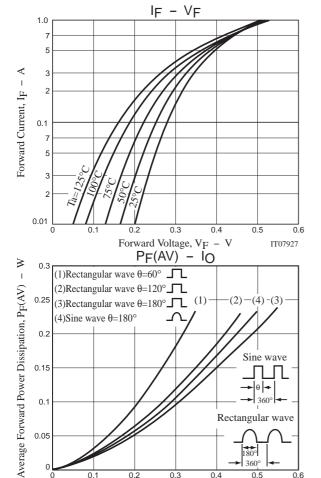
- 1 : Cathode 2: Cathode 3: No Contact 4: Anode
- 5: Cathode 6: Cathode

Topview

trr Test Circuit

0.05

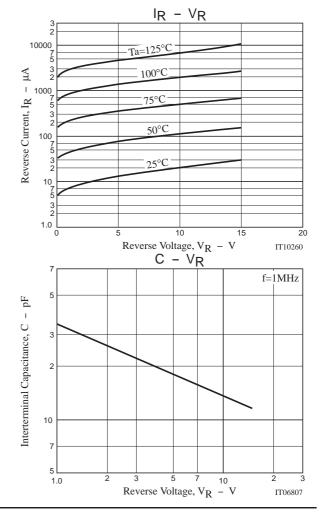


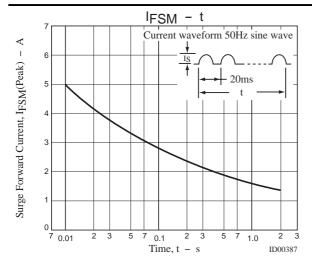


Average Output Current, $I_O - A$

180° 360° 0.5

IT08178





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