

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

SBS822 — Low VF Schottky Barrier Diode 20V, 1A Rectifier

Applications

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

Features

- Low forward voltage (IF=0.5A, VF max=0.39V) (IF=1A, VF max=0.46V).
- · Composite type with 2 low VF SBDs in one package, facilitating high-density mounting.
- · Ultrasmall-size package permitting applied sets to be small and slim (Mounting height 0.85mm).
- · Halogen free compliance.

Specifications

Absolute Maximum Ratings at Ta=25°C (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		20	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		20	V
Average Output Current	Io	When mounted on ceramic substrate (1000mm²x0.8mm) Rectangular wave	1	А
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	5	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C (Value per element)

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	VR	I _R =0.5mA	20			V
Forward Voltage	V _F 1	I _F =0.5A		0.34	0.39	V
	V _F 2	I _F =0.7A		0.37	0.42	V
	V _F 3	I _F =1A		0.41	0.46	V
Reverse Current	IR	V _R =10V			110	μΑ

Marking: SJ Continued on next page.

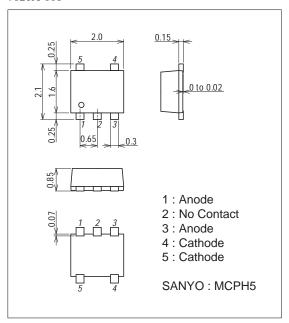
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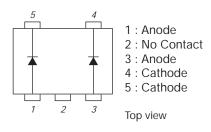
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Interterminal Capacitance	С	V _R =10V, f=1MHz		19		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	When mounted on ceramic substrate (1000mm ² ×0.8mm)		130		°C/W

Package Dimensions

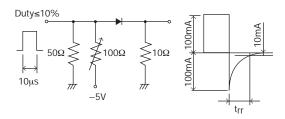
unit : mm (typ) 7021A-001

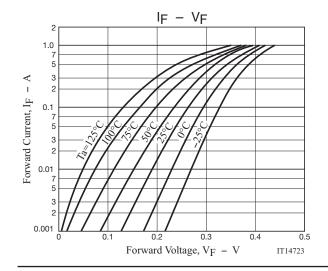


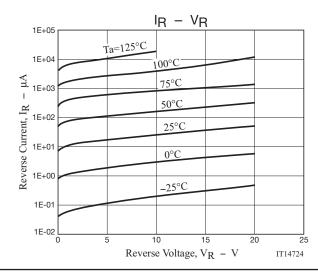
Electrical Connection

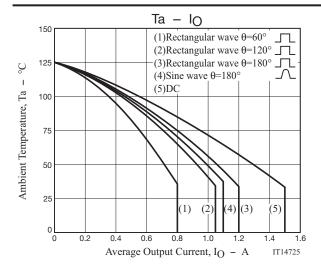


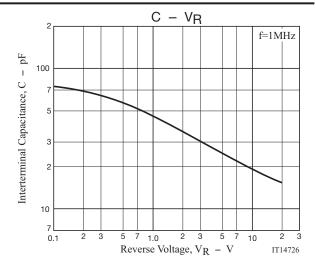
trr Test Circuit











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