

SANYO Semiconductors DATA SHEET

SB01-15CP—

Schottky Barrier Diode

150V, 100mA Rectifier

Applications

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

Features

- Low forward voltage (V_F max=0.75V).
- Fast reverse recorvery time (t_{rr} max=10ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		150	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		155	V
Average Output Current	lo		100	mA
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

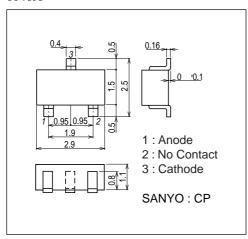
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I _R =200μA	150			V
Forward Voltage	٧F	I _F =100mA			0.75	V
Reverse Current	IR	V _R =75V			50	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		7		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rthj-a(1)			420		°C/W
	Rthj-a(2)	Mounted on Cu-foild area of 16mm ² X0.2mm t		330		°C/W
		on glass epoxy board				

Marking: F

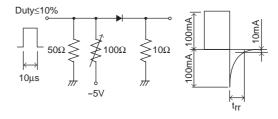
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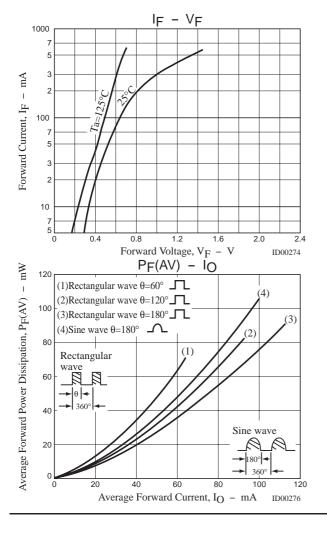
Package Dimensions

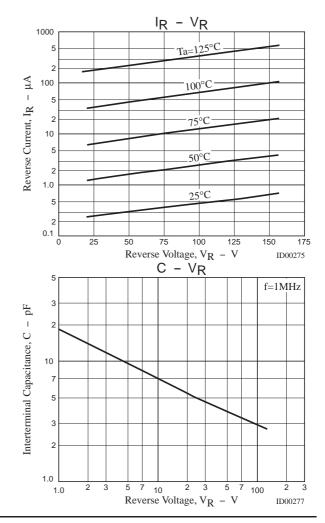
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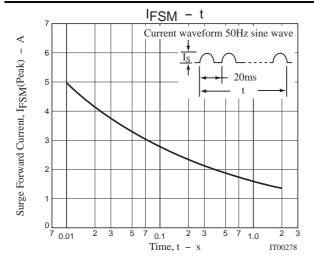


trr Test Circuit









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