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# SANYO Semiconductors DATA SHEET

# **SB10-015C**

# Schottky Barrier Diode 15V, 1A Rectifier

### Applications

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

### **Features**

- Low forward voltage (V<sub>F</sub> max=0.55V).
- Fast reverse recorvery time (t<sub>rr</sub> max=10ns).
- Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.
- · Small-sized package permitting SB10-015C-applied sets to be compact and slim.

## **Specifications**

#### Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		17	V
Average Output Current	IO		1	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

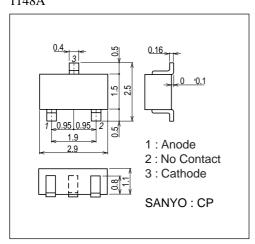
#### Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Unit
Reverse Voltage	VR	I <sub>R</sub> =300μA	15			V
Forward Voltage	V <sub>F</sub> 1	IF=1A			0.55	V
	V <sub>F</sub> 2	IF=100mA			0.40	V
Reverse Current	IR	V <sub>R</sub> =7.5V			50	μΑ
Interterminal Capacitance	С	V <sub>R</sub> =10V, f=1MHz		30		pF
Reverse Recovery Time	t <sub>rr</sub>	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)			420	WV S	°C/W
/larking : S	·		See 1	No. of	0750	George

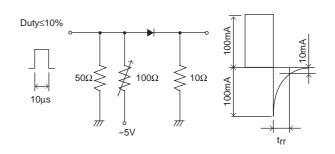
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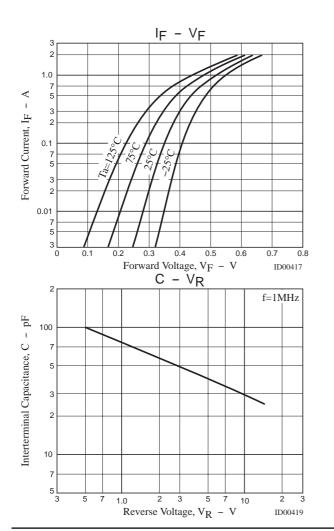
#### Package Dimensions

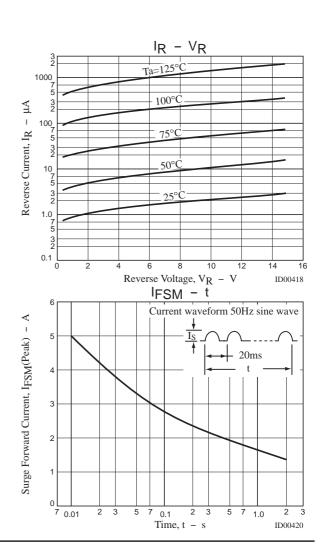
#### unit : mm 1148A



### trr Test Circuit







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