

SB07-015C

Shottky Barrier Diode

15V, 700mA Rectifier

Applications

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

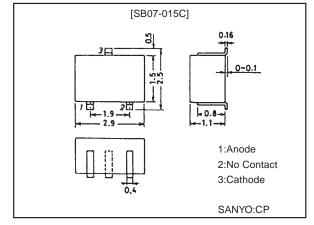
Features

- \cdot Low forward voltage (V_F max=0.55V).
- · Fast reverse recorvery time (trr max=10ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.
- · Small-sized package, permitting SB07-015C-applied sets to be compact and slim.

Package Dimensions

unit:mm

1148A



Specifications

Absolute Maximum Ratings at Ta = 25°C

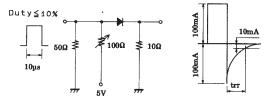
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		17	V
Average Output Current	lo		700	mA
Surge Forward Current	I _{FSM}	50Hz sine wave, 1cycle	5	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Reverse Voltage	V _R	I _R =150μA	15			V
Forward Voltage	V _F (1)	I _F =700mA			0.55	V
	V _F (2)	I _F =100mA			0.42	V
Reverse Current	I _R	V _R =-15V			20	μΑ
Interterminal Capacitance	С	V _R =-10V, f=1MHz		20		pF
Reverse Recorvery Time	trr	I _F =I _R =10mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a			560		°C/W

· Marking:R

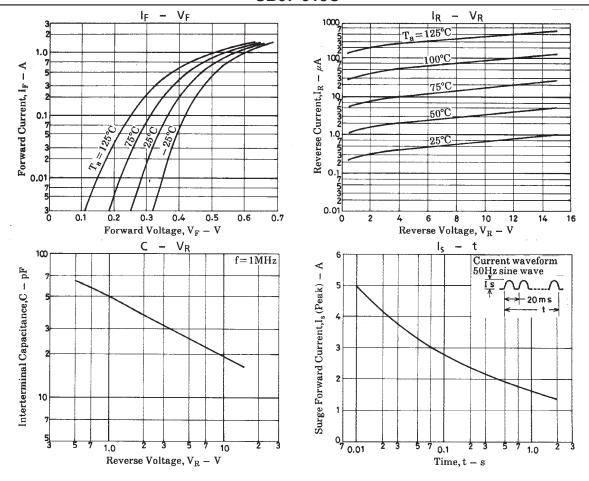
trr Test Circuit



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