



SB07-015C

Shottky Barrier Diode

15V, 700mA Rectifier

Applications

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

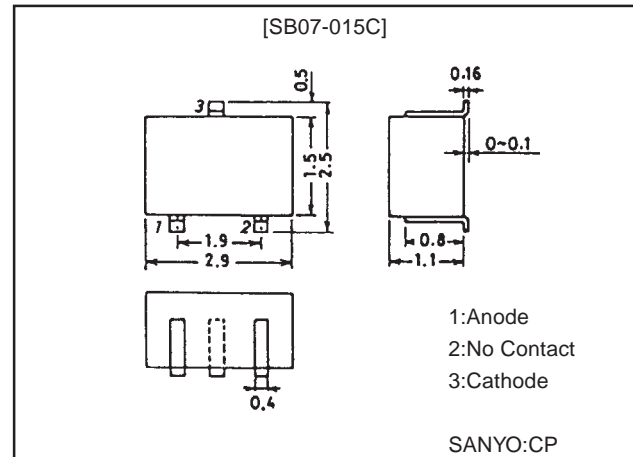
Features

- Low forward voltage (V_F max=0.55V).
- Fast reverse recovery time (t_{rr} 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 $T_a = 25^\circ\text{C}$

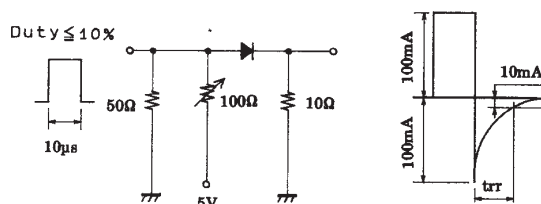
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		15	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		17	V
Average Output Current	I_O		700	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1cycle	5	A
Junction Temperature	T_j		-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

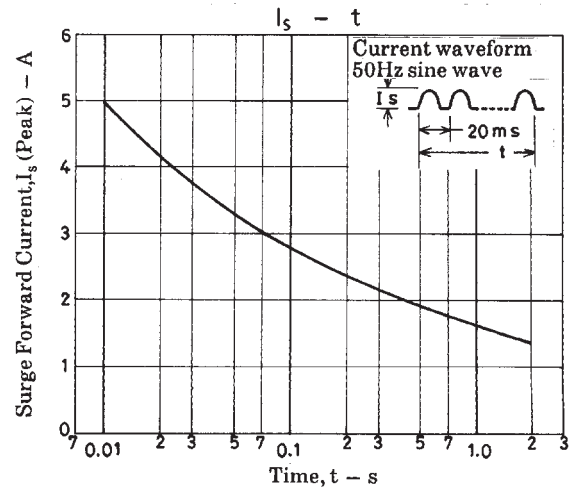
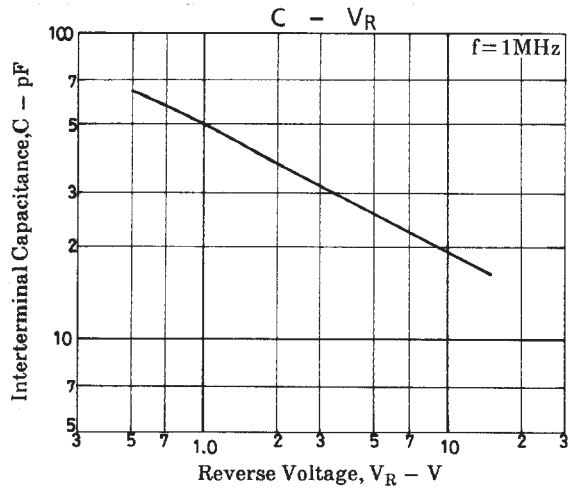
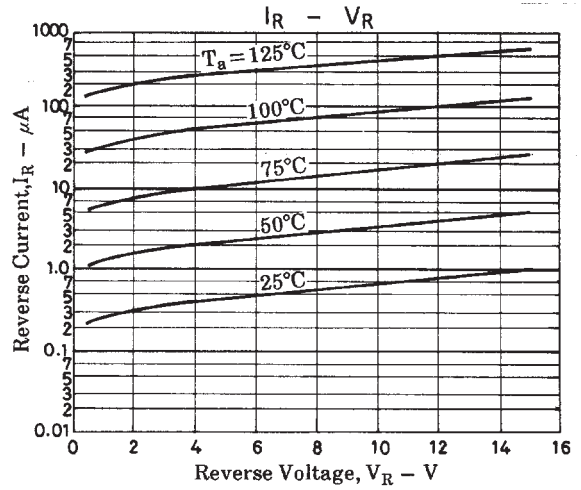
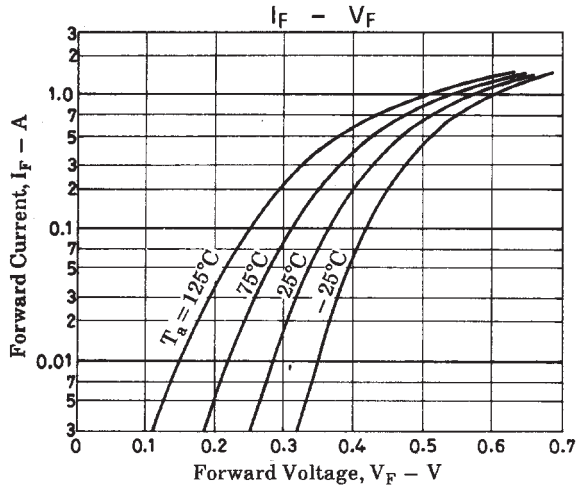
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=150\mu\text{A}$	15			V
Forward Voltage	$V_F(1)$	$I_F=700\text{mA}$			0.55	V
	$V_F(2)$	$I_F=100\text{mA}$			0.42	V
Reverse Current	I_R	$V_R=-15\text{V}$			20	μA
Interterminal Capacitance	C	$V_R=-10\text{V}$, $f=1\text{MHz}$		20		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$, See specified Test Circuit			10	ns
Thermal Resistance	R_{thj-a}			560		$^\circ\text{C/W}$

· Marking:R

t_{rr} Test Circuit



SB07-015C



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