

Ordering number :EN1917A

勝特力材料 886-3-5753170
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 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw



SB05-05CP
 Shottky Barrier Diode

50V, 500mA Rectifier

Applications

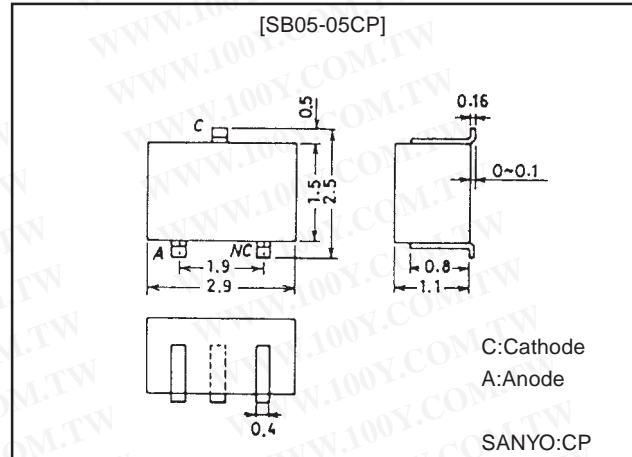
- High frequency rectification (switching regulators, converters, choppers).

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.

Package Dimensions

unit:mm
 1148



Specifications

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

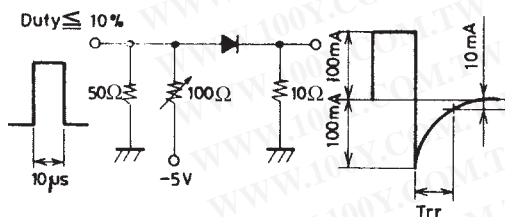
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		-50	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		-55	V
Average Output Current	I_O		500	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1cycle	5	A
Junction Temperature	T_J		-55 to +125	$^\circ\text{C}$
Storage Temperature	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	$I_R = -200\mu\text{A}$	-50			V
Forward Voltage	V_F	$I_F = -500\text{mA}$			0.55	V
Reverse Current	I_R	$V_R = -25\text{V}$			-50	μA
Interterminal Capacitance	C	$V_R = -10\text{V}$, $f = 1\text{MHz}$		17		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 100\text{mA}$, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a(1)			420		$^\circ\text{C/W}$
	Rthj-a(2)	Mounted on Cu-foiled area of $16\text{mm}^2 \times 0.2\text{mm}$ on glass epoxy board		330		$^\circ\text{C/W}$

· Marking: B

t_{rr} Test Circuit

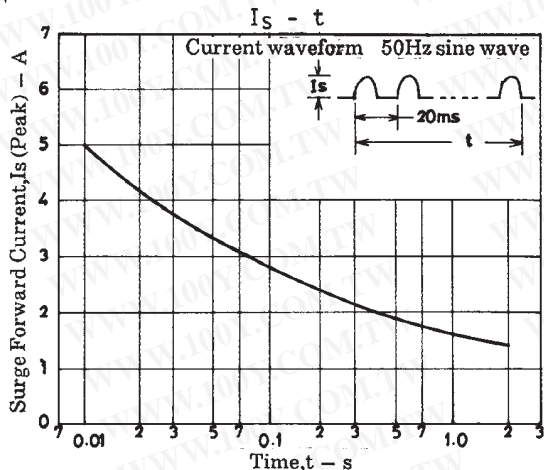
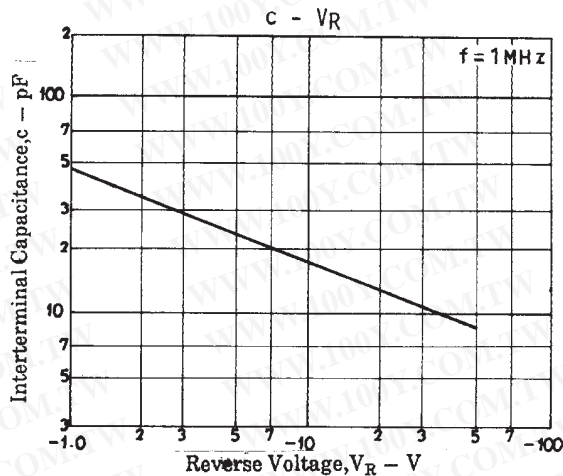
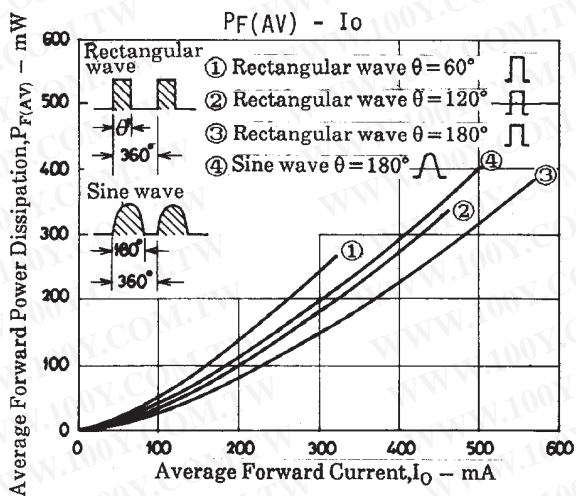
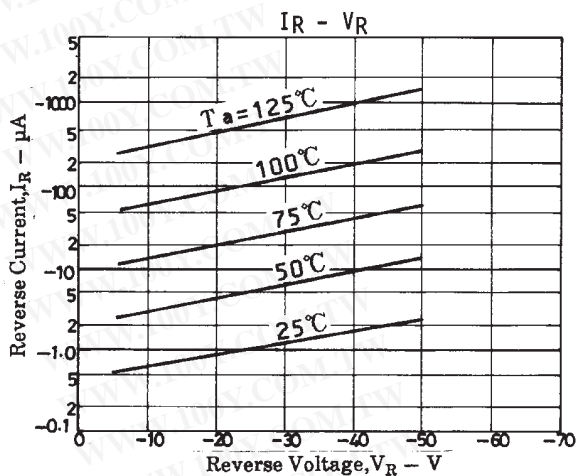
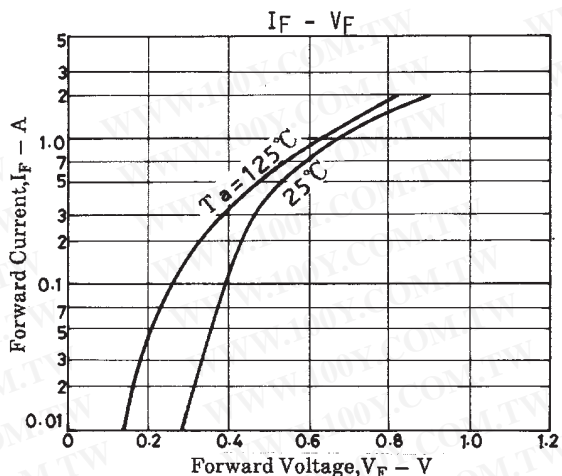


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