

SANYO**SB002-15CP**

Shottky Barrier Diode

150V, 20mA Rectifier**Applications**

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

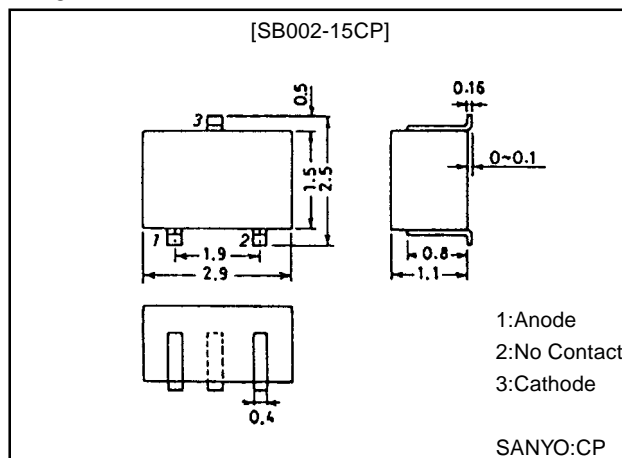
Features

- Low forward voltage (V_F max=0.75V).
- 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

1148A

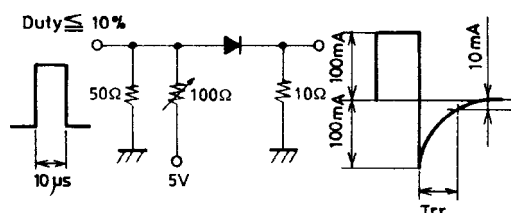
**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		150	V
Non-repetitive Peak Reverse Surge Voltage	V_{RSM}		155	V
Average Output Current	I_O		20	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	2	A
Junction Temperature	T_J		-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

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

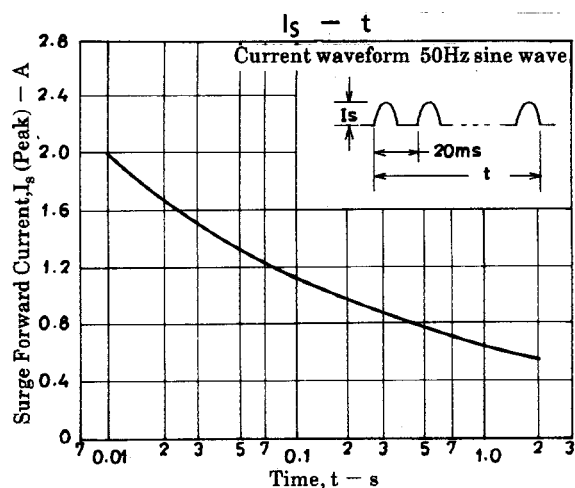
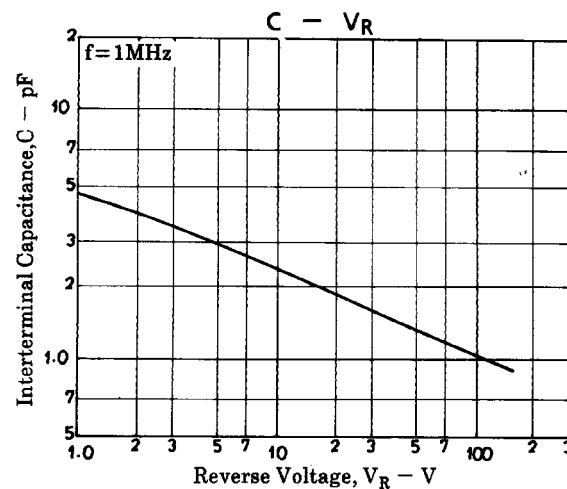
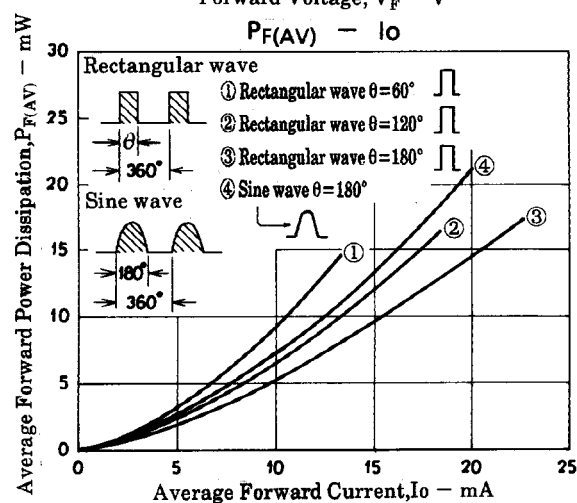
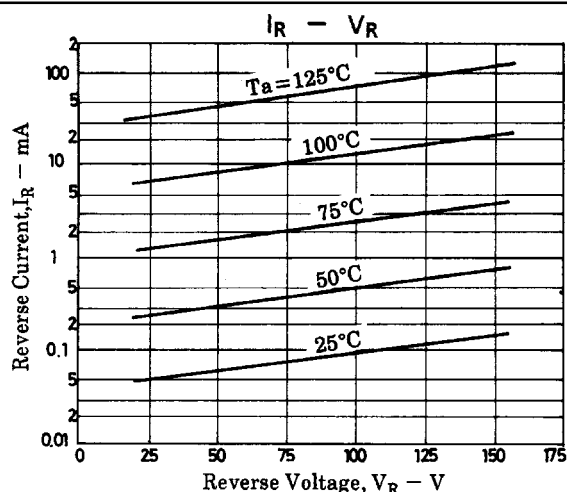
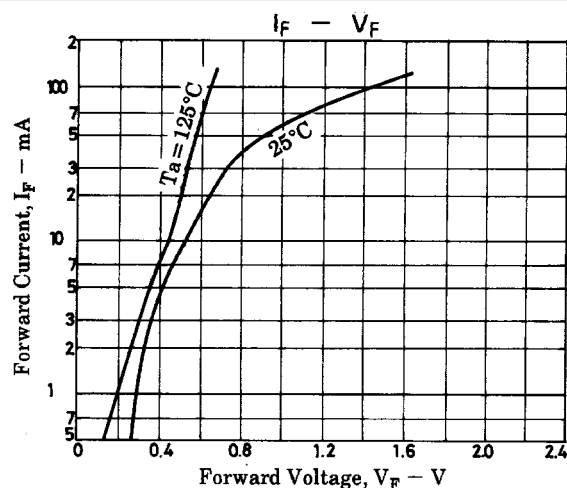
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=50\mu\text{A}$	150			V
Forward Voltage	V_F	$I_F=20\text{mA}$			0.75	V
Reverse Current	I_R	$V_R=75\text{V}$			15	μA
Interterminal Capacitance	C	$V_R=10\text{V}$, $f=1\text{MHz}$		2.3		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$, See Test Circuit.			10	ns
Thermal Resistance	Rthj-a (1)			560		$^\circ\text{C/W}$
	Rthj-a (2)	Mounted in Cu-foiled area of $16\text{mm}^2 \times 0.2\text{mm}$ on glass epoxy board		410		$^\circ\text{C/W}$

· Marking:E

 t_{rr} Test Circuit**SANYO Electric Co.,Ltd. Semiconductor Business Headquarters**

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33098HA (KT)/41096GI (KOTO)/1259KN/X-8557/9175YY No.1928-1/2



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