

**SANYO**

No. 1916A

**SB01-05CP**

Schottky Barrier Diode

50V, 100mA 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

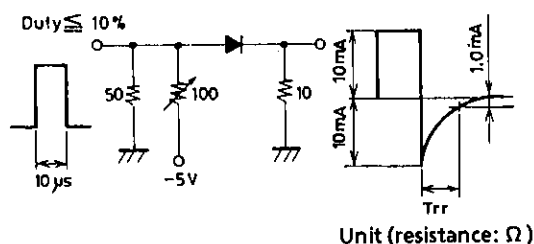
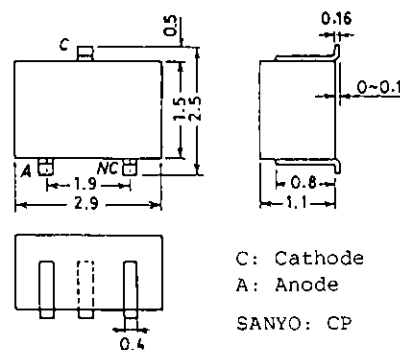
**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

			unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	-50	V
Nonrepetitive Peak Reverse	$V_{RSM}$	-55	V
Surge Voltage			
Average Output Current	$I_O$	100	mA
Surge Forward Current	$I_{FSM}$	2	A
Junction Temperature	$T_j$	-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

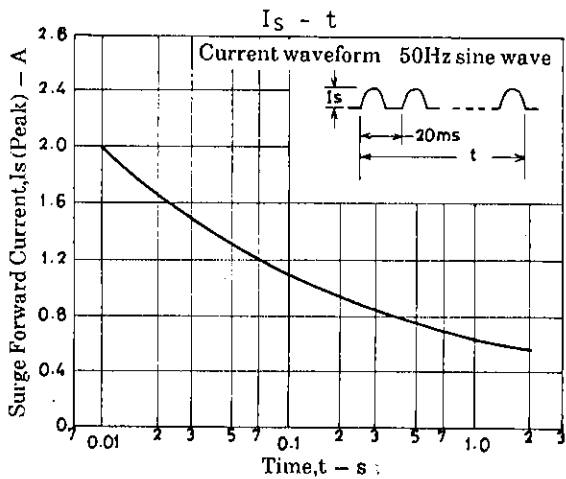
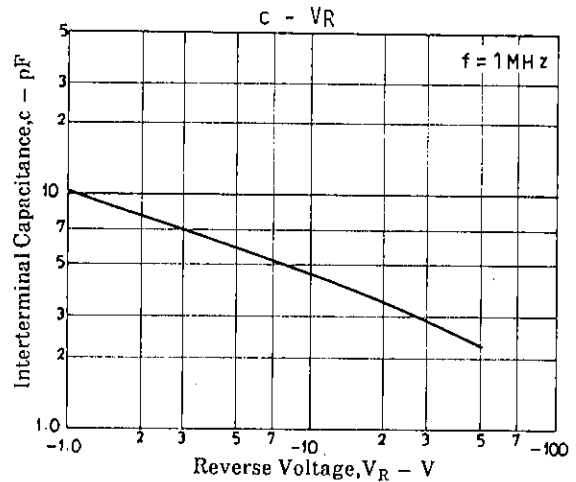
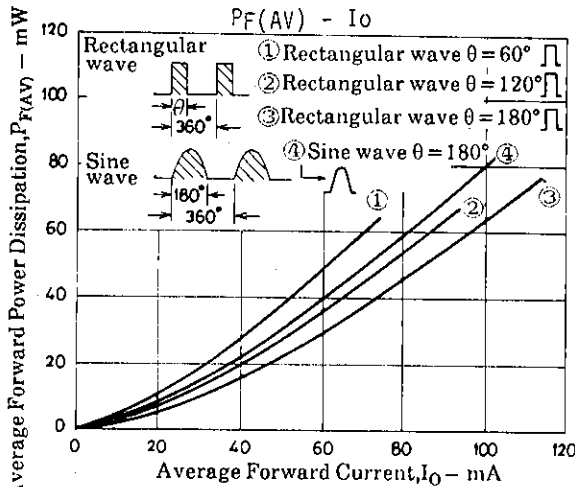
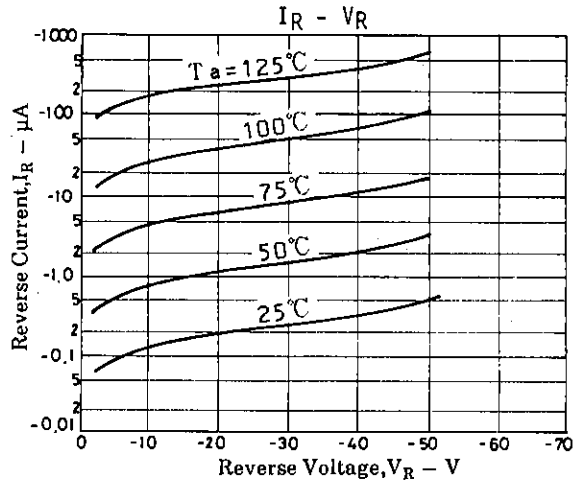
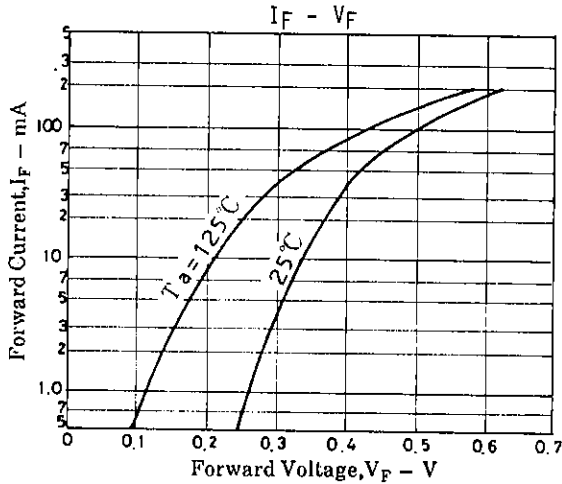
**Electrical Characteristics at  $T_a = 25^\circ\text{C}$** 

			min	typ	max	unit
Reverse Voltage	$V_R$	$I_R = -50\mu\text{A}$	-50			V
Forward Voltage	$V_F$	$I_F = 100\text{mA}$		0.55		V
Reverse Current	$I_R$	$V_R = -25\text{V}$		-15		$\mu\text{A}$
Interterminal Capacitance	c	$V_R = -10\text{V}, f = 1\text{MHz}$		4.4		pF
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 10\text{mA}$ , See specified Test Circuit.			10	ns
Thermal Resistance	$R_{thj-a}$ (1)			560		$^\circ\text{C/W}$
	$R_{thj-a}$ (2)	Mounted on Cu-foild area of $16\text{mm}^2 \times 0.2\text{mm}$ on glass epoxy board		410		$^\circ\text{C/W}$

Marking : A

 **$t_{rr}$  Test Circuit****Package Dimensions 1148**  
(unit: mm)

C: Cathode  
A: Anode  
SANYO: CP



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