

SANYO**SB005-09SPA**

Shottky Barrier Diode

90V, 50mA Rectifier**Applications**

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

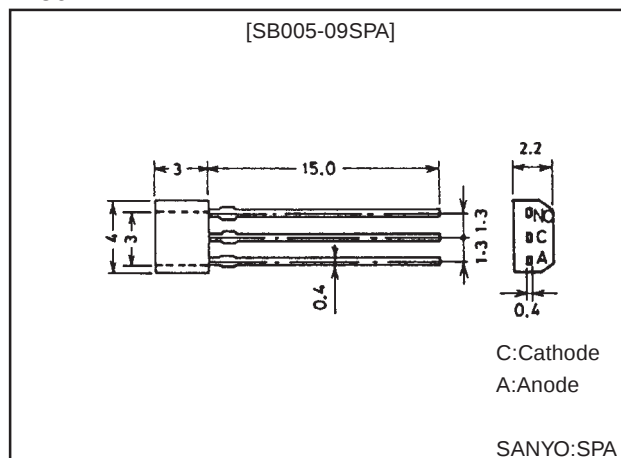
Features

- Low forward voltage (V_F max=0.7V).
- Fast reverse recovery time (t_{rr} =10ns max).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

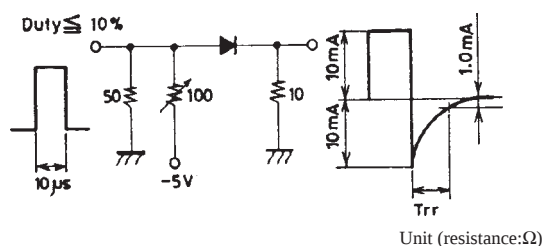
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**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$**

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		-90	V
Non-repetitive Peak Reverse Surge Voltage	V_{RSM}		-95	V
Average Output Current	I_O	50Hz, resistive load, $T_a=102^\circ\text{C}$	50	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	$^\circ\text{C}$

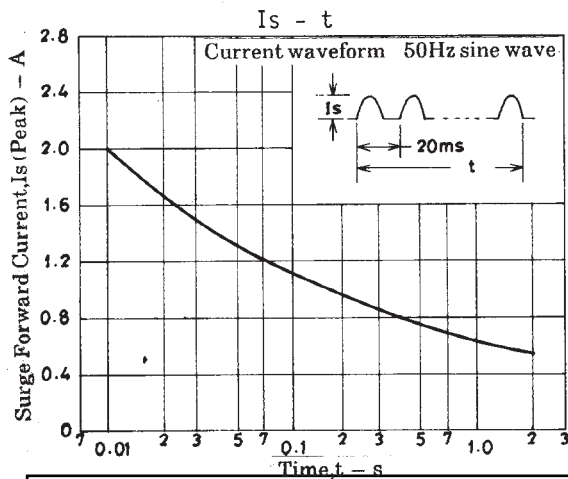
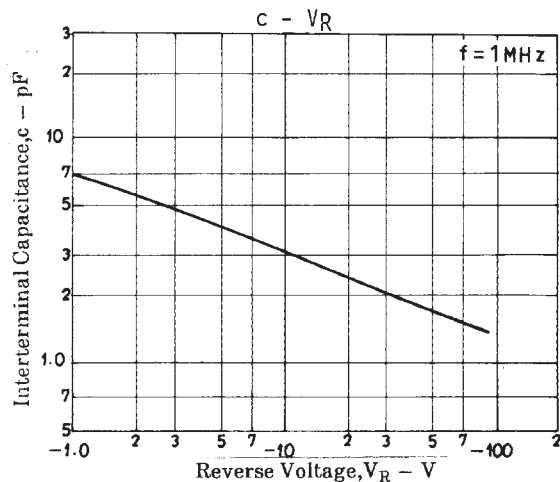
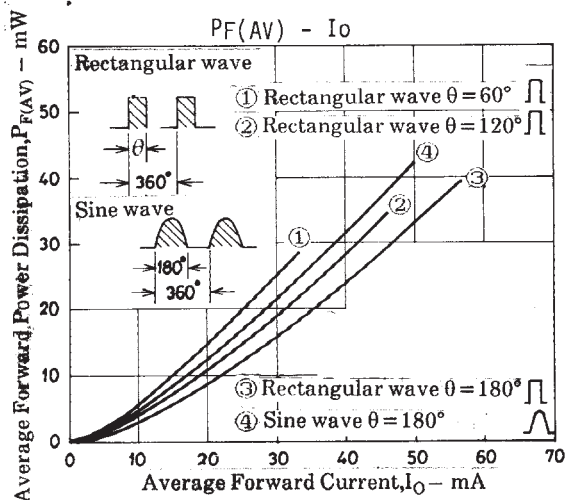
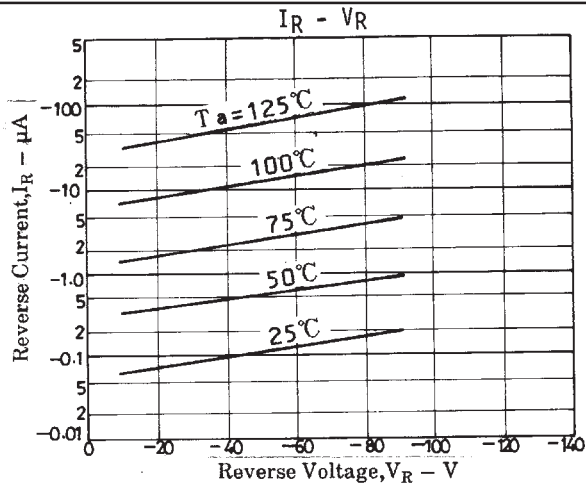
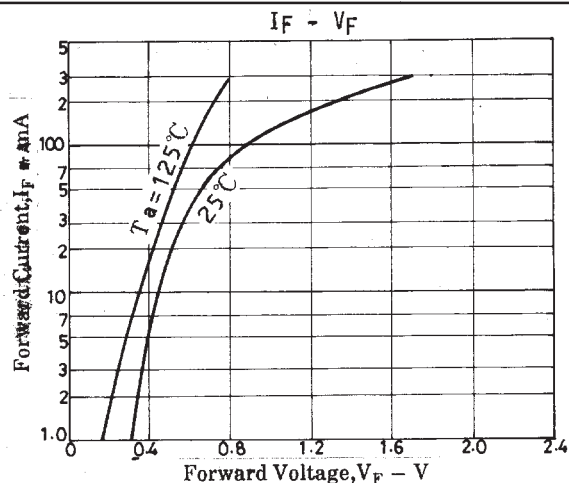
Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=-50\mu\text{A}$	-90			V
Forward Voltage	V_F	$I_F=50\text{mA}$			0.7	V
Reverse Current	I_R	$V_R=-45\text{V}$			-15	μA
Interterminal Capacitance	C	$V_R=-10\text{V}$, $f=1\text{MHz}$		3.2		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$, $T_j=25^\circ\text{C}$, See specified Test Circuit.			10	ns
Thermal Resistance	R_{thj-a}			300		$^\circ\text{C/W}$

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

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33098HA (KT)/1169TA/O255KI, TS No.1923-1/2



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This catalog provides information as of March, 1998. Specifications and information herein are subject to change without notice.