

SANYO	No.3874	SB20W03Z
	Schottky Barrier Diode (Twin Type · Cathode Common)	
30V, 2A 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 = 20ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$ (Value per element)

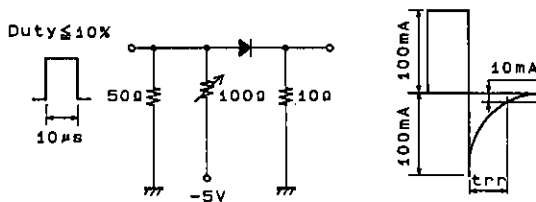
			unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Non-repetitive Peak Reverse Surge Voltage	V_{RSM}	35	V
Average Output Current	I_o	2	A
Surge Forward Current	I_{FSM}	20	A
Junction Temperature	T_j	-55 to +125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

50Hz sine wave, 1 cycle

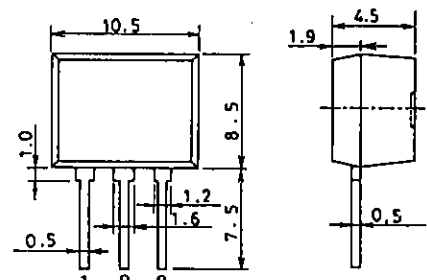
Electrical Characteristics at $T_a = 25^\circ\text{C}$ (Value per element)

			min	typ	max	unit
Reverse Voltage	V_R	$I_R = 500\mu\text{A}$	30			V
Forward Voltage	V_F	$I_F = 2\text{A}$			0.55	V
Reverse Current	I_R	$V_R = 15\text{V}$			100	μA
Interterminal Capacitance	C	$V_R = 10\text{V}, f = 1\text{MHz}$		70		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 100\text{mA}$			20	ns
Thermal Resistance	$R_{th(j-a)}$	See specified Test Circuit.		75		$^\circ\text{C/W}$

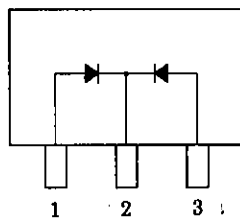
t_{rr} Test Circuit



Package Dimensions 1243A
(unit: mm)

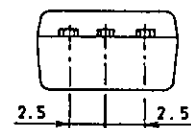


Electrical Connection



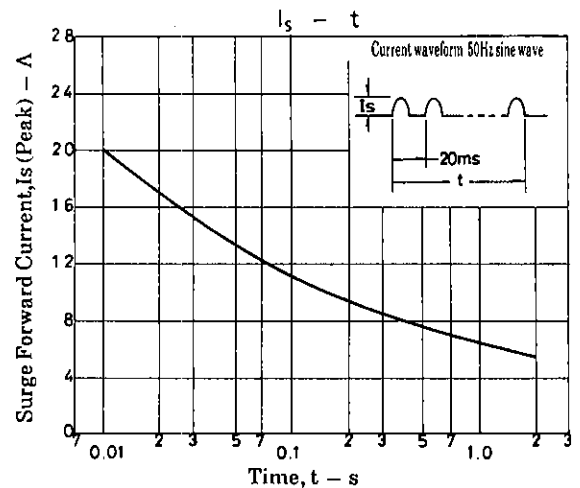
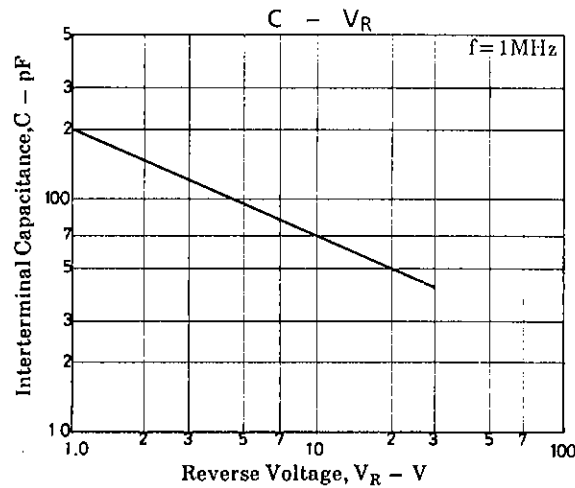
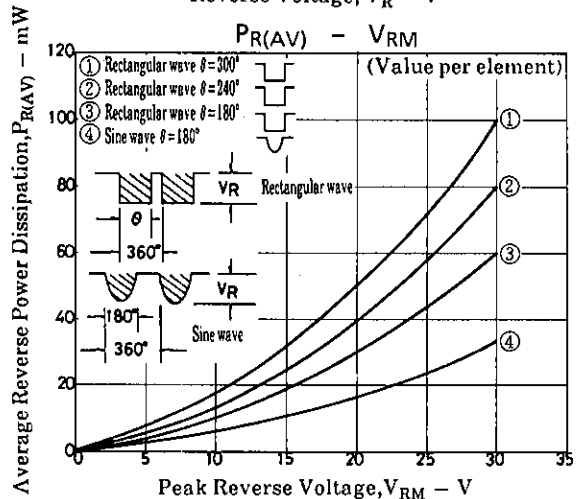
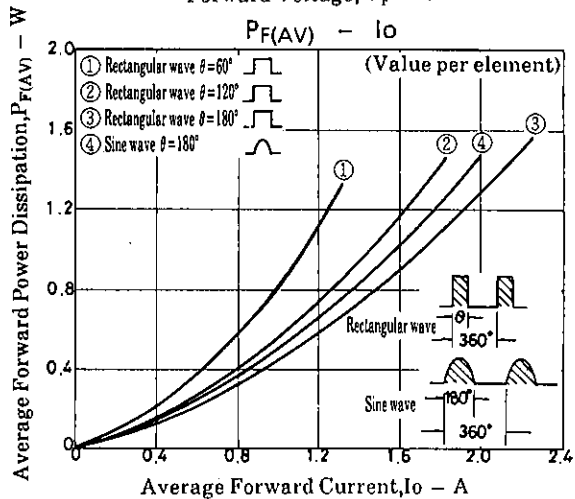
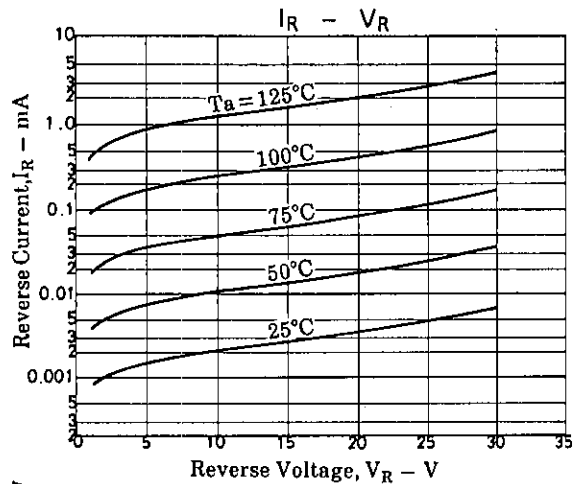
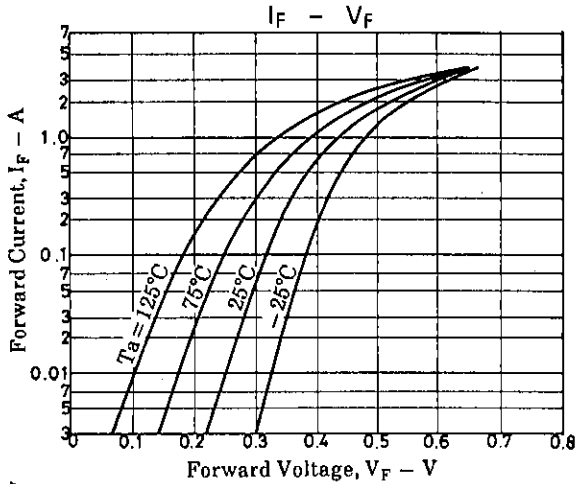
1: Anode
2: Cathode
3: Anode

(Top View)



1: Anode
2: Cathode
3: Anode

SANYO: FLP



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