Ordering number: EN3874

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.

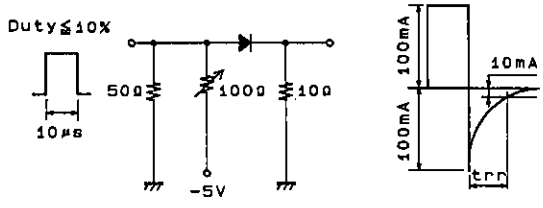
Absolute Maximum Ratings at Ta = 25°C (Value per element)

				unit
Repetitive Peak Reverse Voltage	V_{RRM}		30	V
Non-repetitive Peak Reverse Surge Voltage	V_{RSM}		35	V
Average Output Current	Io		2	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	20	A
Junction Temperature	Tj		−55 to +125	°C
Storage Temperature	Tstg		−55 to +125	°C

Electrical Characteristics at Ta = 25°C (Value per element)

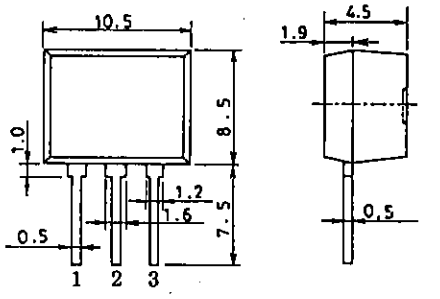
			min	typ	max	unit
Reverse Voltage	V_R	I_R = 500μA	30			V
Forward Voltage	V_F	I_F = 2A			0.55	V
Reverse Current	I_R	V_R = 15V			100	μA
Interterminal Capacitance	C	V_R = 10V, f = 1MHz		70		pF
Reverse Recovery Time	t_{rr}	$I_F = I_R$ = 100mA See specified Test Circuit.			20	ns
Thermal Resistance	Rth(j-a)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

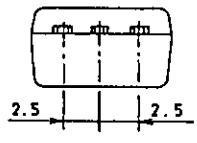
t_{rr} Test Circuit



Package Dimensions 1243A

(unit : mm)

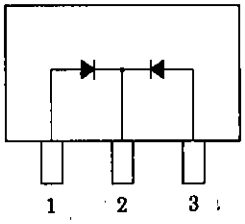




1 : Anode
2 : Cathode
3 : Anode

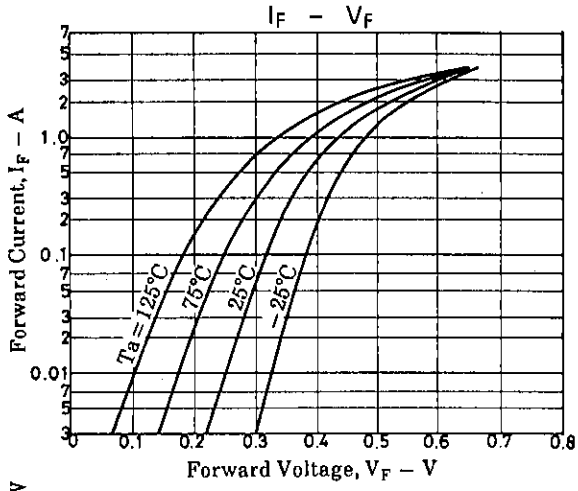
SANYO : FLP

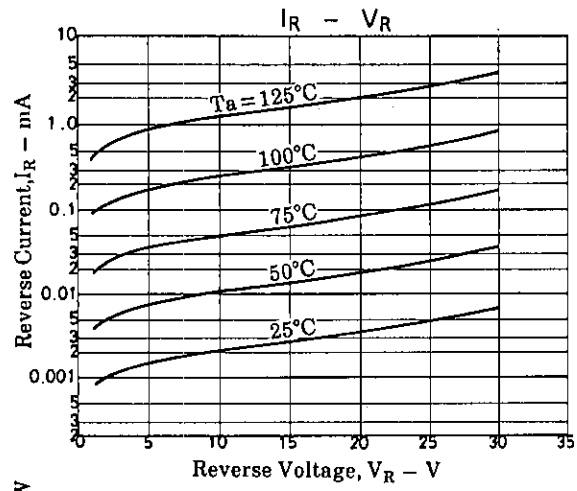
Electrical Connection

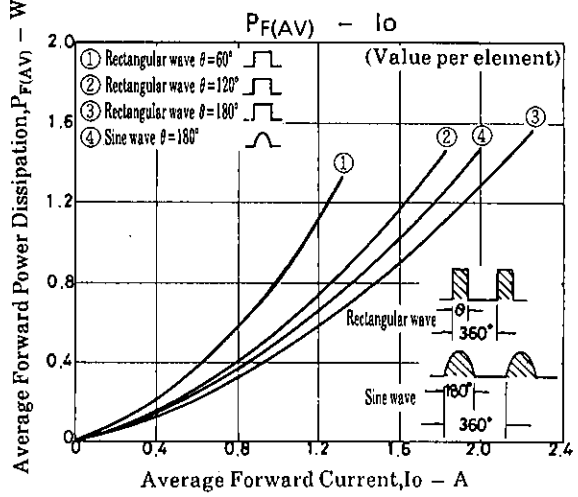


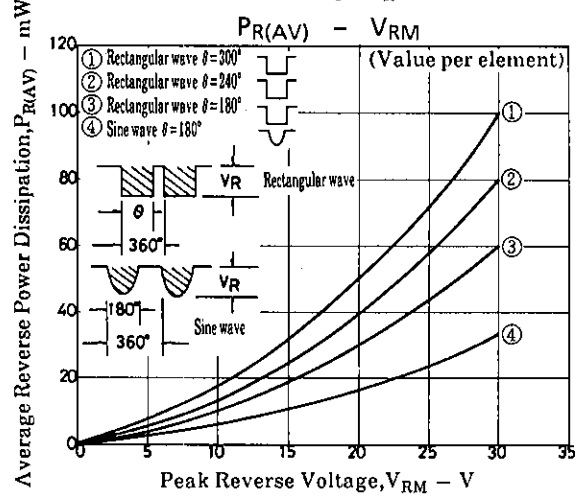
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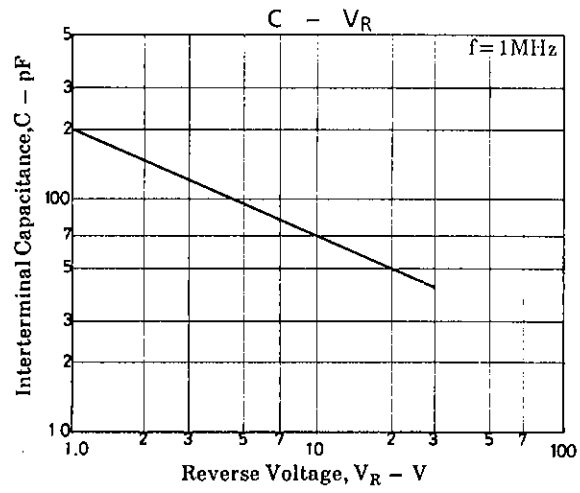
(Top View)

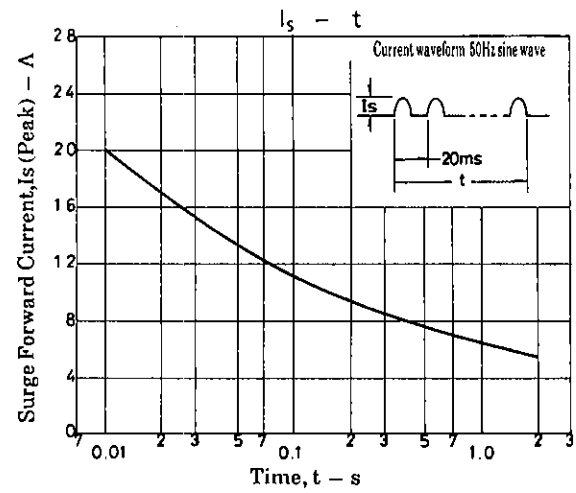












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