Ordering number : EN3876A

Schottky Barrier Diode (Twin Type · Cathode Common)

SB10W05Z

50V, 1A 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.

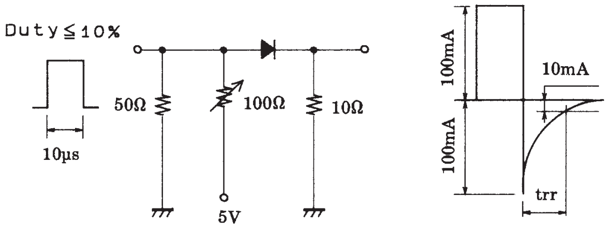
Absolute Maximum Ratings at Ta=25°C (Value per element)

				unit
Repetitive Peak Reverse Voltage	V_{RRM}		50	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		55	V
Average Output Current	Io		1	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	10	A
Junction Temperature	Tj		–55 to +125	°C
Storage Temperature	Tstg		–55 to +125	°C

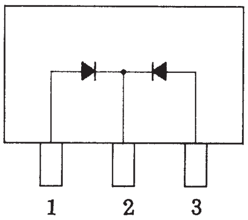
Electrical Characteristics at Ta=25°C (Value per element)

			min	typ	max	unit
Reverse Voltage	V_R	I_R=300µA	50			V
Forward Voltage	V_F	I_F=1A			0.55	V
Reverse Current	I_R	V_R=25V			80	µA
Interterminal Capacitance	c	V_R=10V, f=1MHz		52		pF
Reverse Recovery Time	t_{rr}	I_F=I_R=100mA See specified Test Circuit.			10	ns
Thermal Resistance	Rthj-a			75		°C/W

t_{rr} Test Circuit

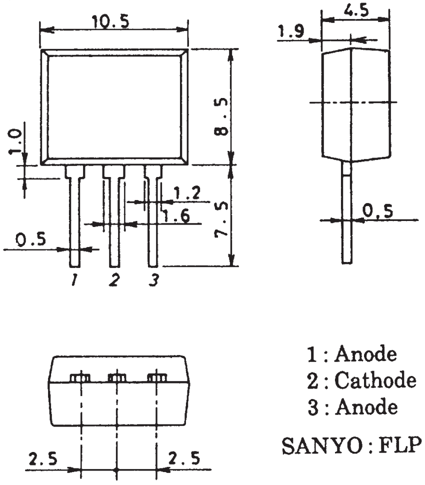


Electrical Connection



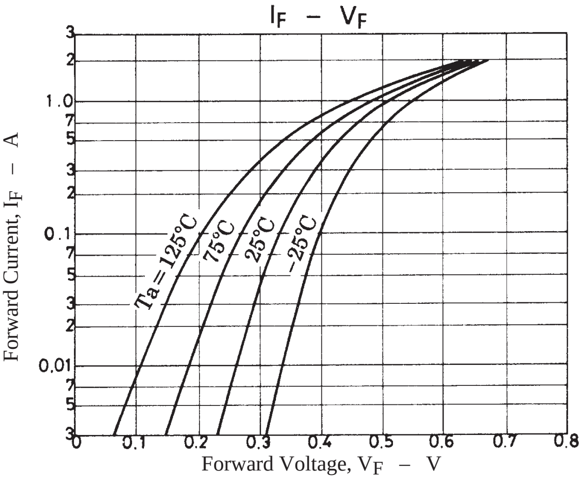
1 : Anode
2 : Cathode
3 : Anode

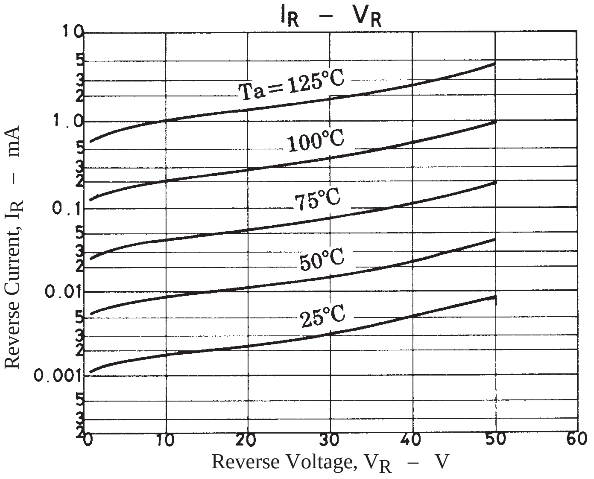
Package Dimensions 1243A
(unit : mm)

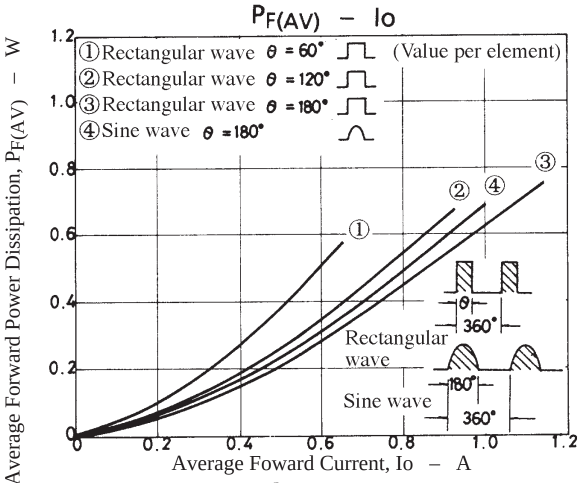


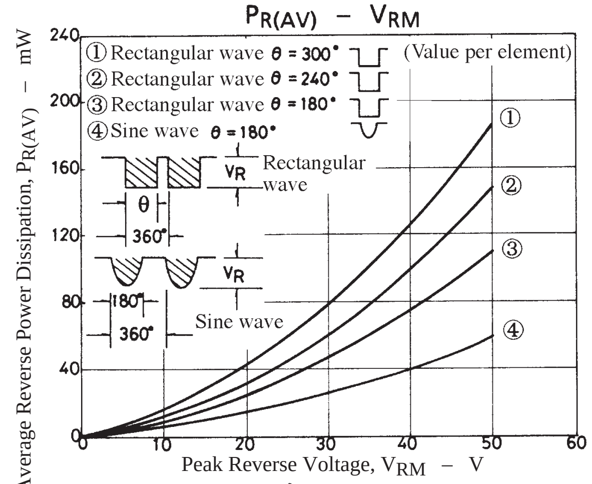
1 : Anode
2 : Cathode
3 : Anode

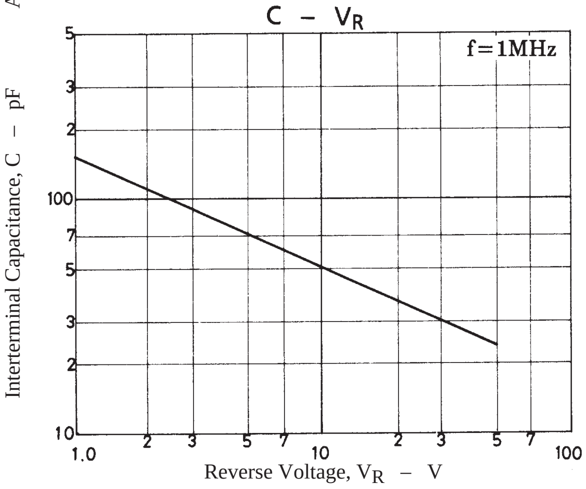
SANYO : FLP

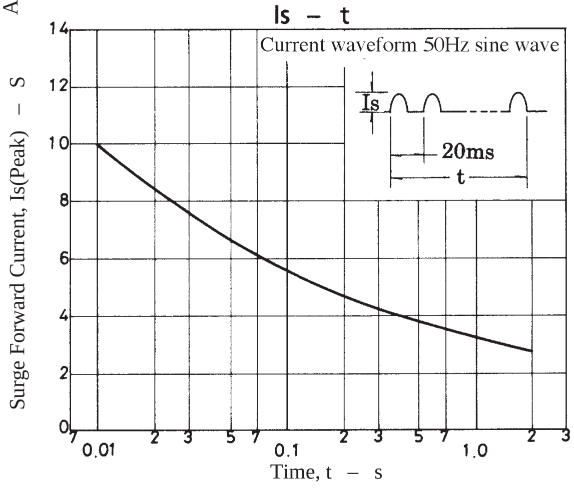












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