Ordering number : EN2949A

Discontinued

SANYO Semiconductors

DATA SHEET

SB100-05J — Schottky Barrier Diode (Twin Type · Cathode Common) 50V, 10A Rectifier

Applications

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

Features

- Low forward voltage (V_F max=0.55V).
- Short reverse recovery time (t_{rr} max=60ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.
- Micaless package facilitating easy mounting.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		50	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		55	V
Average Output Current	I_O	50Hz resistive load, Tc=97°C	10	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	100	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=2mA, Tj=25°C *	50			V
Forward Voltage	V_F	I_F=5A, Tj=25°C *			0.55	V
Reverse Current	I_R	V_R=25V, Tj=25°C *			0.5	mA
Reverse recovery time	t_{rr}	I_F=2A, Tj=25°C, -dI_F / dt=10A / μs *			60	ns
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.5	°C / W

Note) * : Value per element

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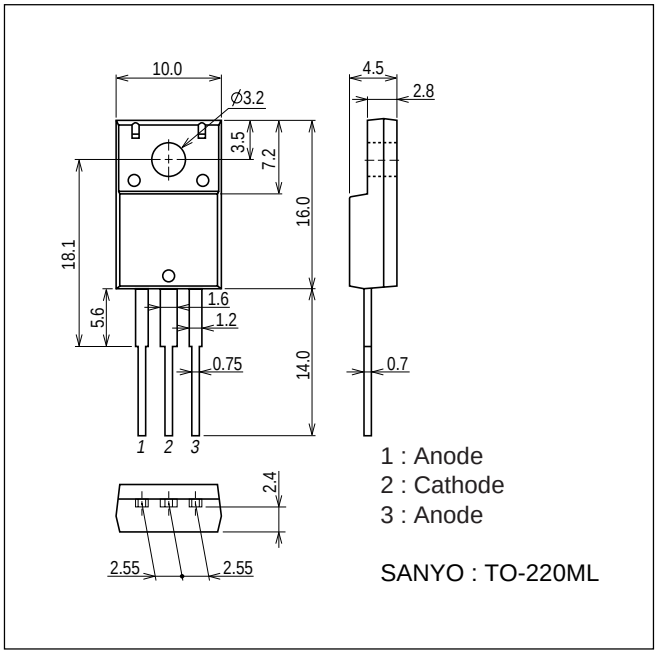
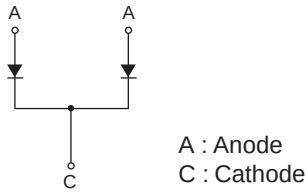
Package Dimensions

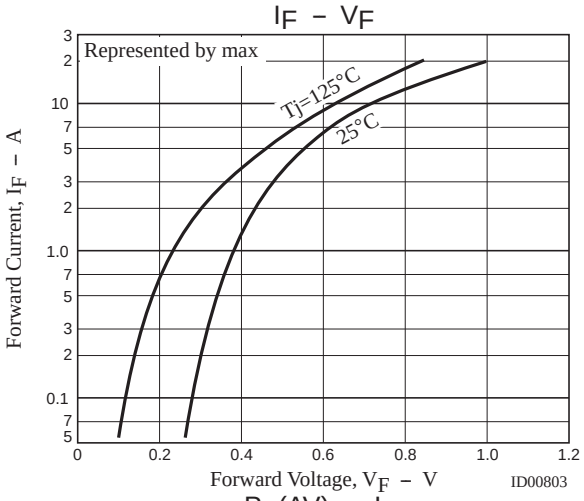
unit : mm (typ)

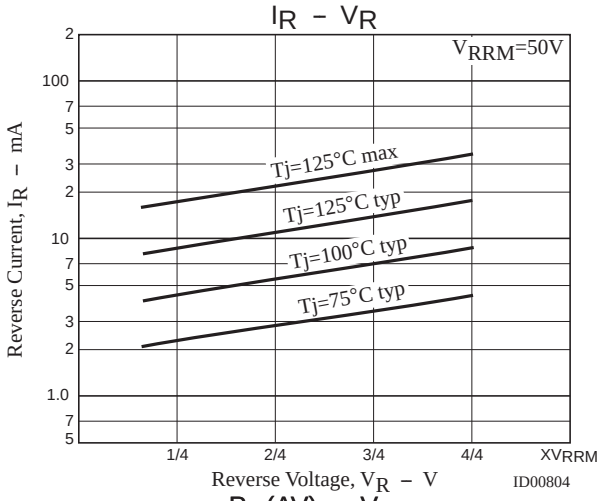
7508-001

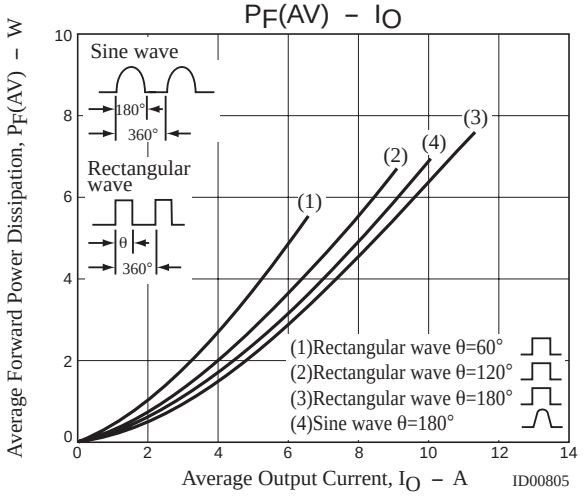


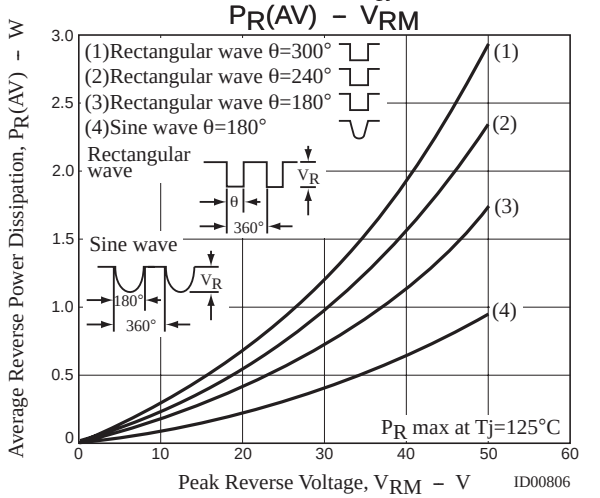
Electrical Connection











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