

SANYO Semiconductors DATA SHEET

SBT250-04JS — Schottky Barrier Diode (Twin Type • Cathode Common) 40V, 25A Rectifier

Applications

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

Features

- Guaranteed up to Tj=150°C.
- Low forward voltage (VF max=0.55V).
- · Short reverse recovery time.
- · Low switching noise.
- · High reliability due to highly reliable planar structure.
- · Attachment workability is good by Mica-less package.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		40	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		44	V
Average Output Current	IO	50Hz resistive load, sine wave Tc=86°C	25	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	100	А
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Linit
	Symbol		min	typ	max	Unit
Reverse Voltage	V _R	I _R =3mA, Tj=25°C *	40			V
Forward Voltage	VF	IF=10A, Tj=25°C *			0.55	V
Reverse Current	IR	V _R =20V, Tj=25°C *			0.3	mA

Note) * : Value per element

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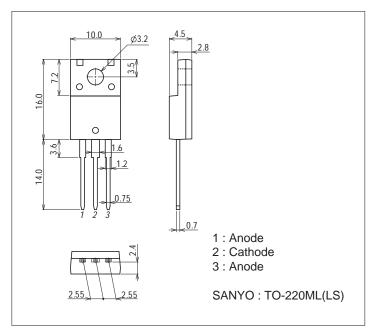
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Interterminal Capacitance	С	V _R =10V, Tj=25°C *		510		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.5	°C/W

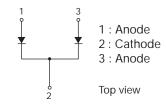
Note) * : Value per element

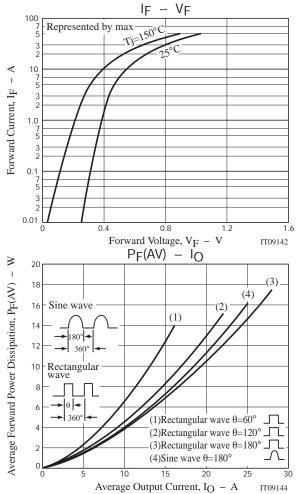
Package Dimensions

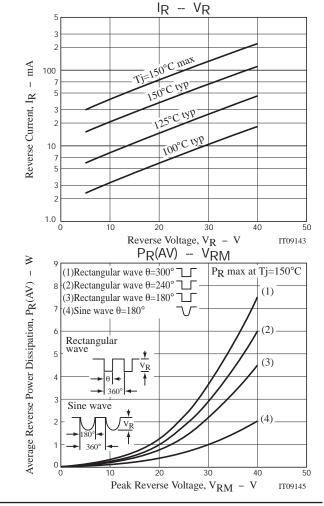
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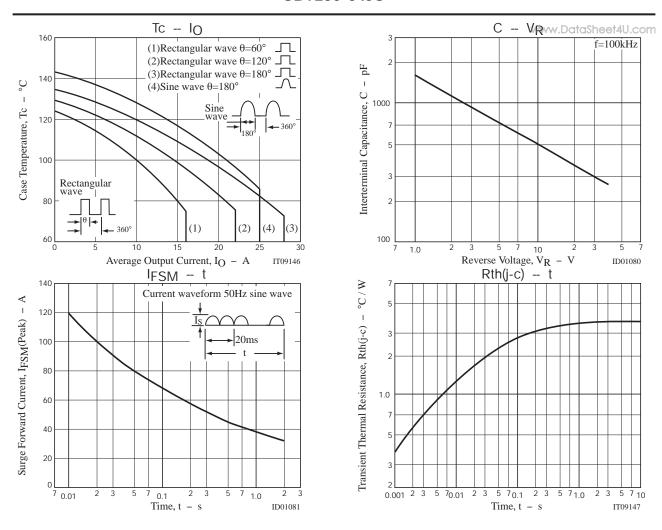


Electrical Connection









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