

SANYO Semiconductors DATA SHEET

SBJ200-04J Schottky Barrier Diode (Twin Type · Cathode Common) 40V, 20A Rectifier

Applications

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

Features

- Small reverse current (IR typ=10µA) due to adoption of MRJ (Multi Refined PN Junction) structure.
- Low forward voltage (VF typ=0.48V).
- High temperature operation is possible (Tj=150°C).
- · High surge breakdown voltage.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		40	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		44	V
Average Output Current	ΙO	50Hz resistive load, sine wave Tc=95°C	20	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	120	Α
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	IR=2mA, Tj=25°C*	40			V
Forward Voltage	٧F	I _F =10A, Tj=25°C*		0.48	0.54	V
Reverse Current	IR	V _R =20V, Tj=25°C*		10	100	μΑ
		V _R =40V, Tj=25°C*		20	200	μΑ
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		510		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.2	°C / W

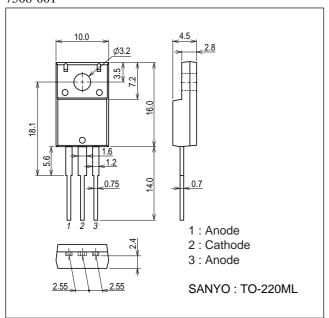
Note) *: Value per element

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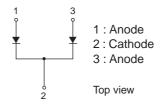
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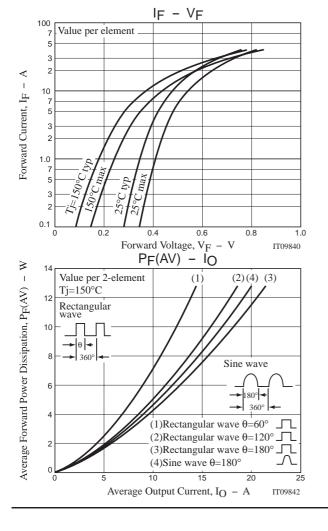
Package Dimensions

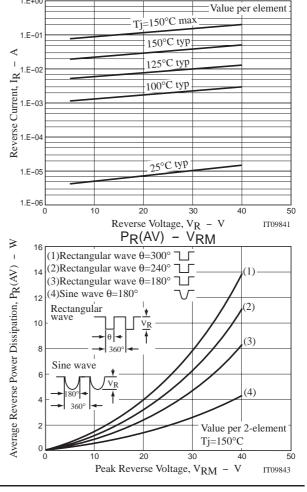
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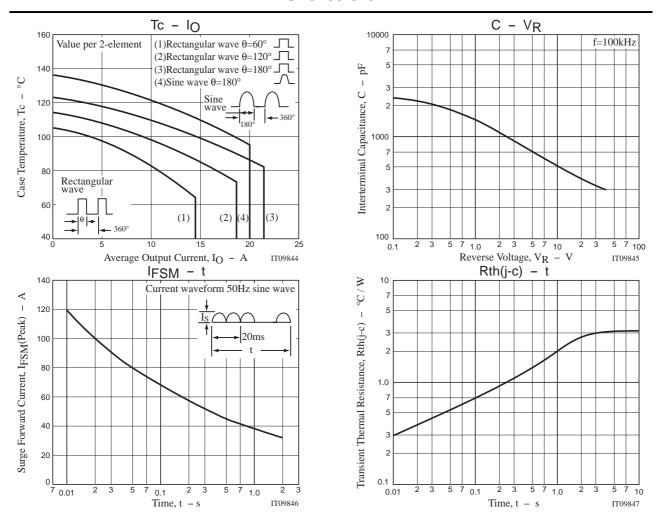
Electrical Connection







SBJ200-04J



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