

SANYO Semiconductors DATA SHEET

SBJ200-06J Schottky Barrier Diode (Twin Type · Cathode Common) 60V, 20A Rectifier

Applications

www.DataSheet4U.coHigh 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=0.55V).
- 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		60	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		66	V
Average Output Current	IO	50Hz resistive load, Sine wave Tc=90°C	20	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	120	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			Unit
			min	typ	max	Unit
Reverse Voltage	VR	IR=2mA, Tj=25°C*	40			V
Forward Voltage	VF	IF=10A, Tj=25°C*		0.55	0.6	V
Reverse Current	IR	V _R =30V, Tj=25°C*		10	100	μΑ
		VR=60V, Tj=25°C*		20	200	μΑ
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		450		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.2	°C / W

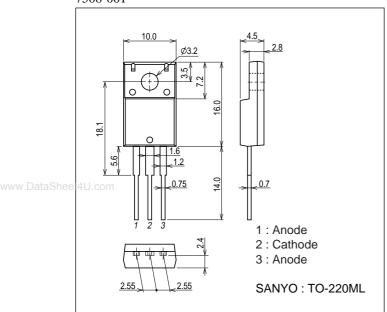
Note) * : Value per element

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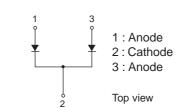
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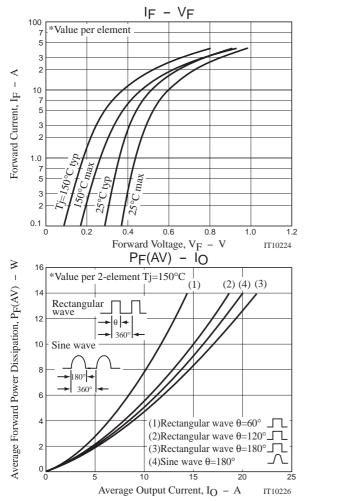
Package Dimensions

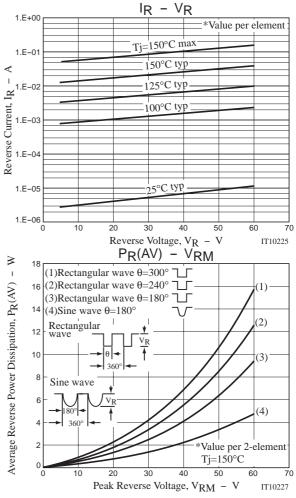
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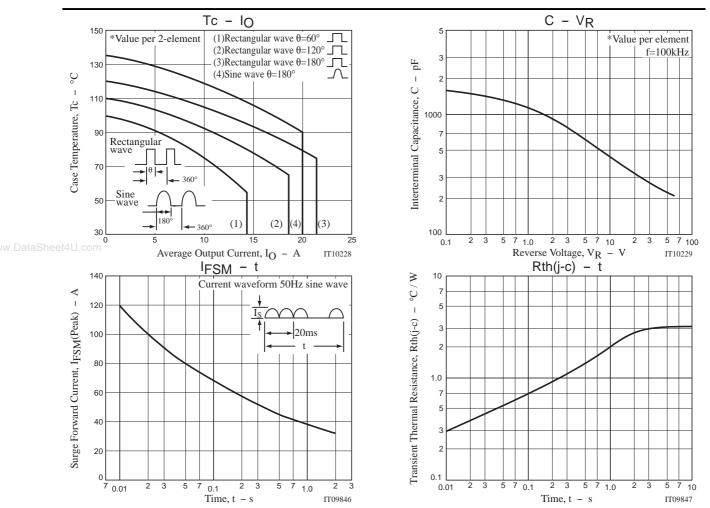












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