

SANYO Semiconductors DATA SHEET

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

Applications

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

Features

- · Small reverse current (I_R 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	lo	50Hz resistive load, Sine wave Tc=90°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

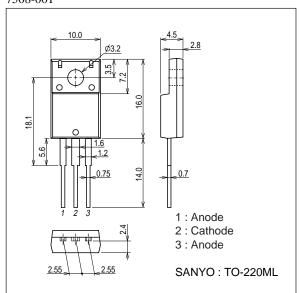
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I _R =2mA, Tj=25°C*	40			V
Forward Voltage	٧F	IF=10A, Tj=25°C*		0.55	0.6	V
Reverse Current	IR	V _R =30V, Tj=25°C*		10	100	μΑ
		V _R =60V, Tj=25°C*		20	200	μΑ
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		450		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.2	°C / W

Note) *: Value per element

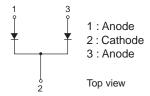
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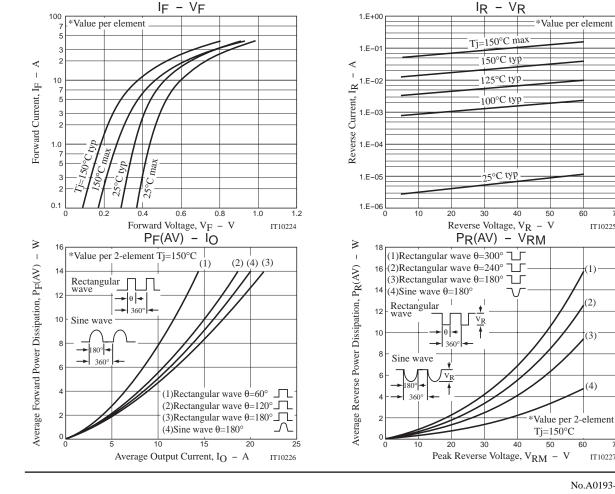
Package Dimensions

unit: mm 7508-001



Electrical Connection





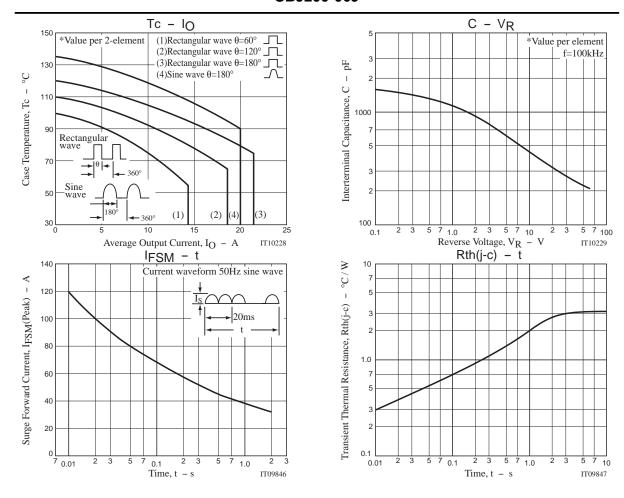
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(2)

(3)

(4)

*Value per element



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