

SANYO Semiconductors DATA SHEET

SBR100-20LS — Schottky Barrier Diode (Twin Type · Cathode Common) 200V, 10A Rectifier

Applications

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

Features

- High breakdown voltage (VR=200V).
- Tj=150°C.
- · Low forward voltage.
- Short reverse recovery time.
- · Low switching noise.
- · High reliability due to 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	VRRM		200	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		205	V
Average Output Current	IO	50Hz resistive load, Sine wave Tc=100°C	10	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	100	A
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
	Symbol		min	typ	max	Unit
Reverse Voltage	VR	I _R =2mA, Tj=25°C*	200			V
Forward Voltage	VF	IF=5A, Tj=25°C*			0.88	V
Reverse Current	IR	V _R =200V, Tj=25°C*		5	100	μΑ
Note) * · Value per element				C	ontinued or	next page

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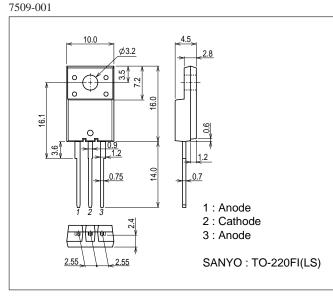
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Continued from preceding page.									
Parameter	Symbol	Conditions	Ratings			Unit			
			min	typ	max				
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		76		pF			
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C / W			

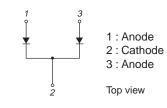
Note) * : Value per element

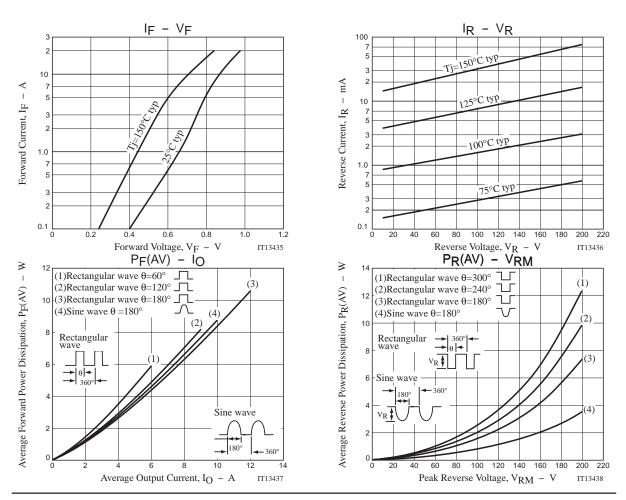
Package Dimensions

unit : mm (typ)

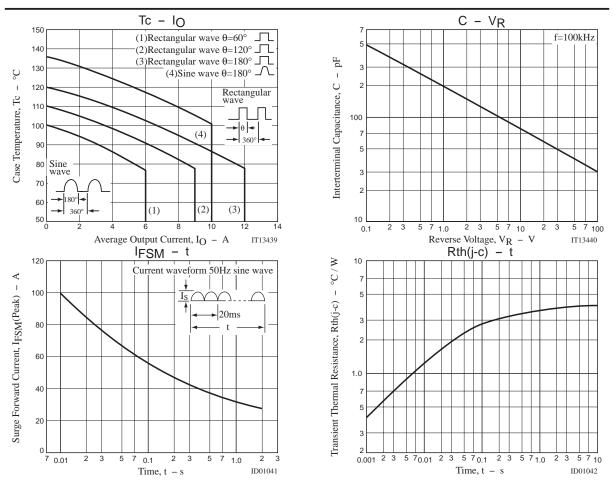


Electrical Connection





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