

SANYO Semiconductors DATA SHEET

SBR300-16JS Schottky Barrier Diode (Twin Type · Cathode Common) 160V, 30A Rectifier

Applications

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

Features

- Tj=150°C.
- Low forward voltage (VF max=0.88V).
- · Short reverse recovery time.
- · Low switching noise.
- · High reliability due to planar structure.
- · Micaless package facilitating mounting.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		160	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		165	V
Average Output Current	lo	50Hz resistive load, Sine wave Tc=31°C	30	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	140	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
	Symbol		min	typ	max	Offic
Reverse Voltage	VR	I _R =5mA, Tj=25°C*	160			V
Forward Voltage	VF	IF=15A, Tj=25°C*		0.83	0.88	V
Reverse Current	IR	V _R =160V, Tj=25°C*		15	300	μΑ

Note) * : Value per element

Continued on next page.

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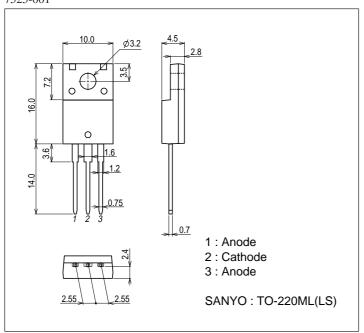
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		230		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3	°C/W

Note) * : Value per element

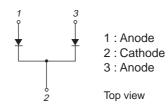
Package Dimensions

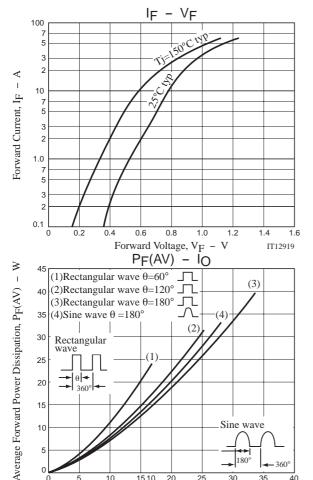
unit: mm (typ) 7525-001

10



Electrical Connection



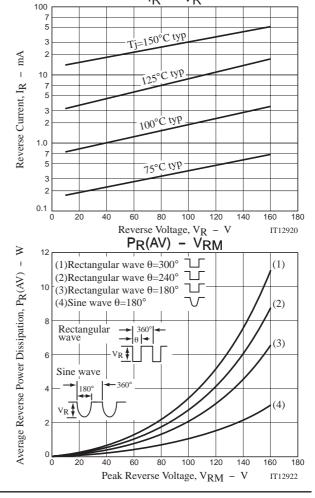


Average Output Current, IO - A

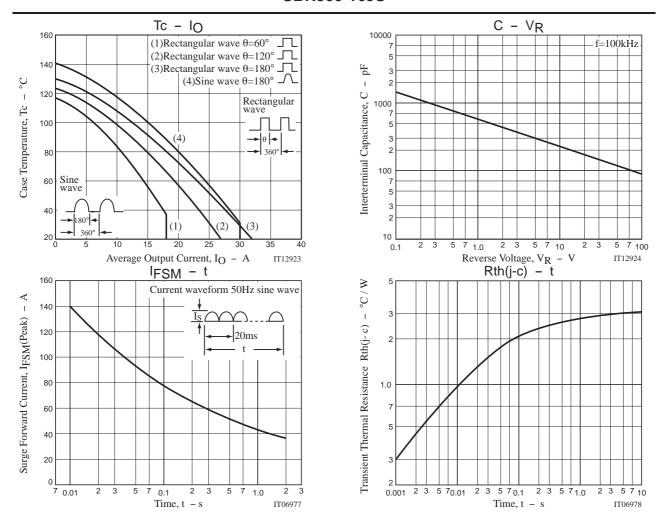
Sine wave

180

IT12921



SBR300-16JS



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