

SANYO Semiconductors

DATA SHEET

SBR100-16JS Schottky Barrier Diode (Twin Type · Cathode Common) 160V, 10A Rectifier

Applications

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

Features

- Tj=150°C.
- Low forward voltage (VF max=0.80V).
- 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		160	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		165	V
Average Output Current	IO	50Hz resistive load, Sine wave Tc=110°C	10	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	100	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	
Reverse Voltage	VR	I _R =2mA, Tj=25°C*	160			V
Forward Voltage	VF	IF=5A, Tj=25°C*		0.77	0.80	V
Reverse Current	IR	V _R =160V, Tj=25°C*		5	100	μΑ
Interterminal Capacitance	С	VR=10V, Tj=25°C*		94		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C / W

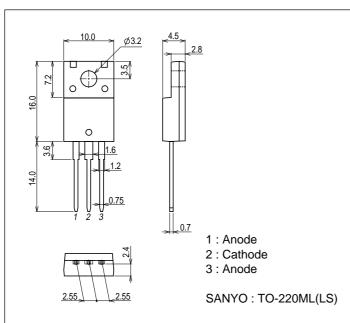
Note) * : Value per element

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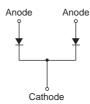
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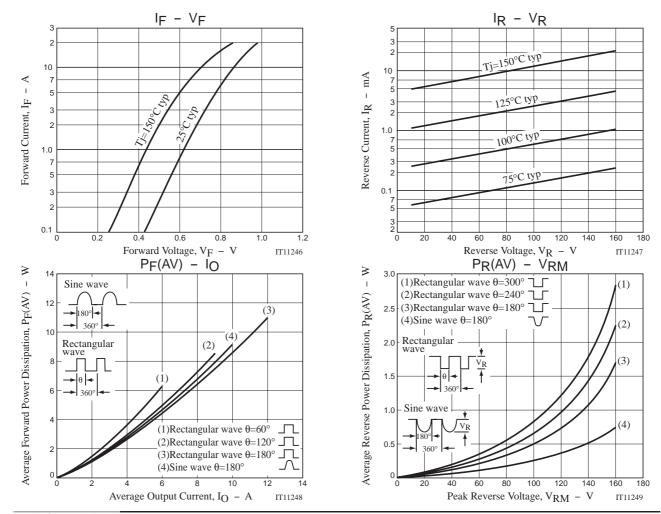
Package Dimensions

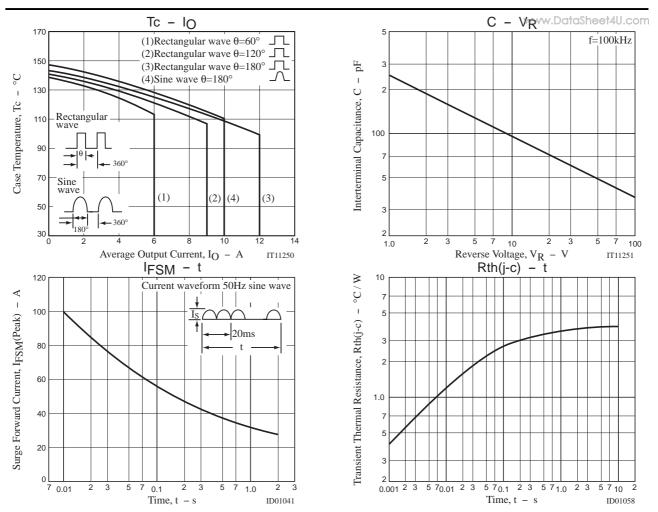
unit : mm (typ) 7525-001



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