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SANYO Semiconductors

DATA SHEET

SBR160-10J

 — Schottky Barrier Diode (Twin Type · Cathode Common)
100V, 16A Rectifier

Applications

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

Features

- Low reverse current.
- Low switching noise.
- High reliability due to highly reliable 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		100	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		105	V
Average Output Current	IO	50Hz resistive load, Sine wave Tc=92°C	16	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
			min	typ	max	
Reverse Voltage	VR	IR=3mA, TJ=25°C*	100			V
Forward Voltage	VF	IF=8A, TJ=25°C*			0.85	V
Reverse Current	IR	VR=50V, TJ=25°C*			200	μA
Interterminal Capacitance	C	VR=10V, TJ=25°C*		280		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.5	°C / W

Note) * : Value per element

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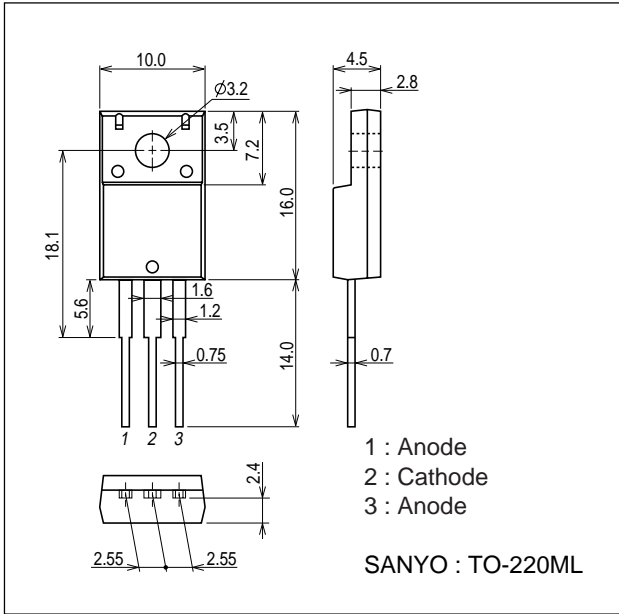
SANYO Electric Co., Ltd. Semiconductor Company

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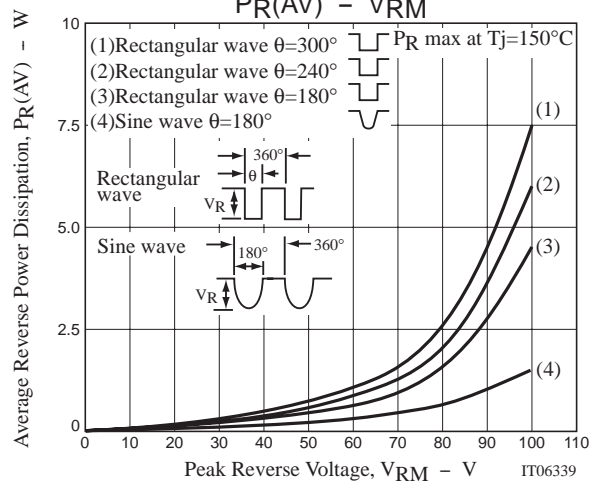
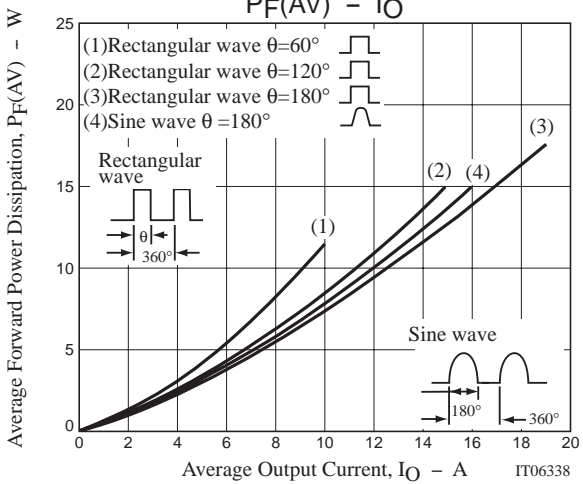
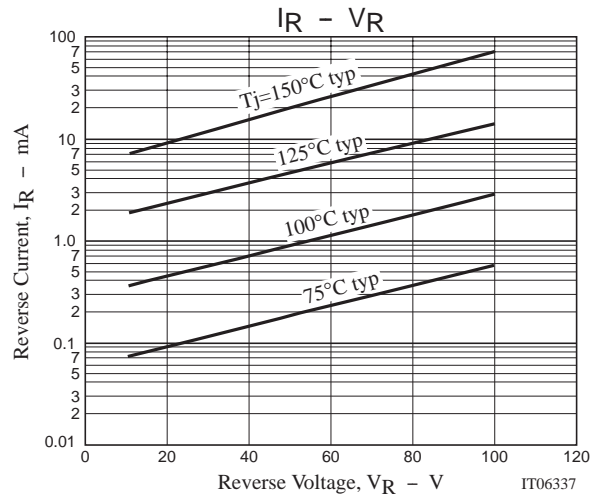
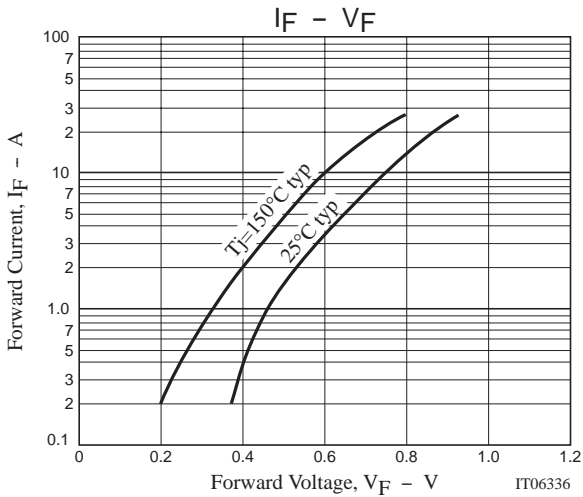
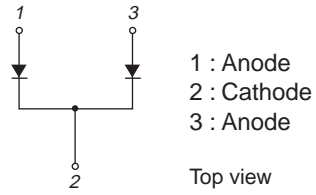
SBR160-10J

Package Dimensions

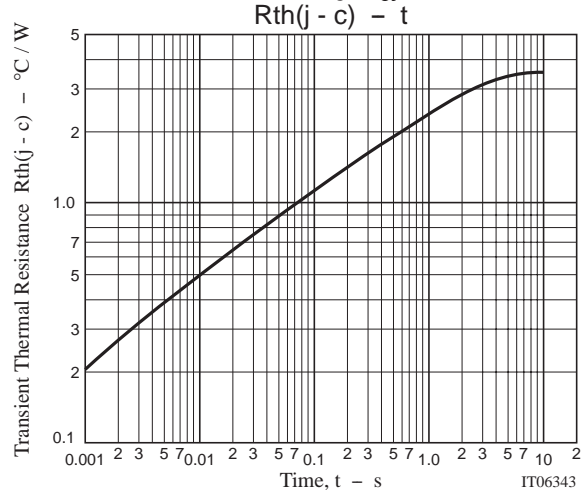
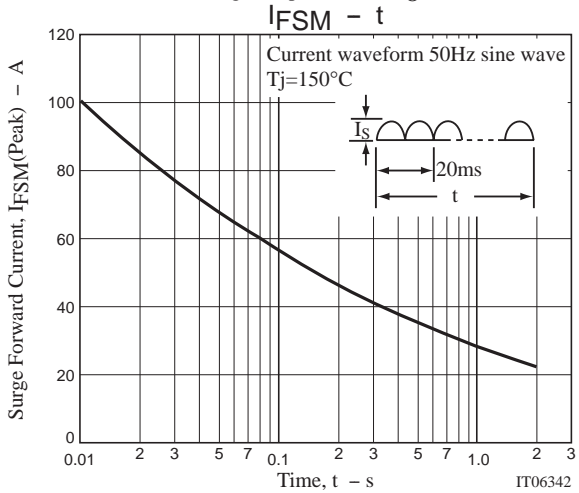
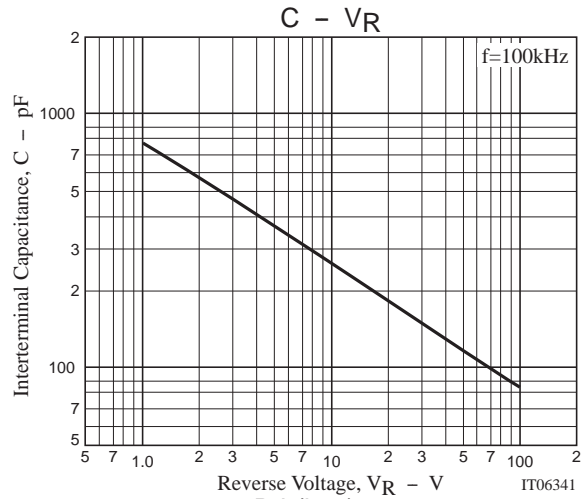
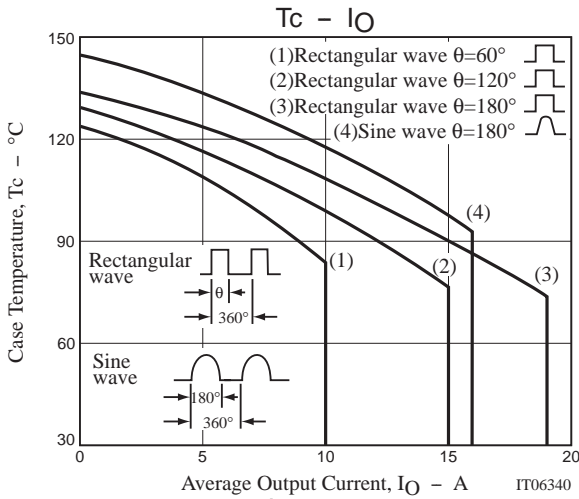
unit : mm
7508-001



Electrical Connection



SBR160-10J



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