



SBR100-10J

100V, 10A Rectifier

An ON Semiconductor Company

Application

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

Features

- Low reverse current.
- Low switching noise.
- High reliability due to highly reliable planar structure.
- Attachment workability ability is good by Mica-less package.

Specifications

Absolute Maximum Ratings at Ta=25°C

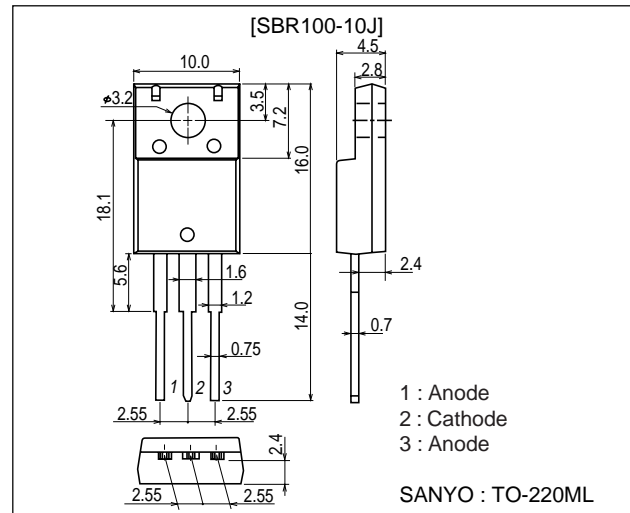
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		100	V
Nonrepetitive Peak Reverse Surge Voltage	VRRSM		105	V
Average Output Current	IO	50Hz resistive load, Tc=107°C	10	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	80	A
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	IR=2mA, Tj=25°C*	100			V
Forward Voltage	VF	IF=5A, Tj=25°C*			0.85	V
Reverse Current	IR	VR=50V, Tj=25°C*			100	μA
Interterminal Capacitance	C	VR=10V, Tj=25°C*		170		pF
Thermal Resistance (Junction-Case)	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C / W

Note : * Value per element

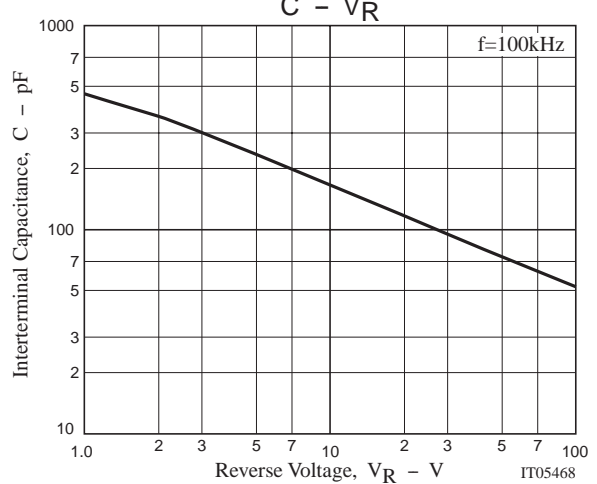
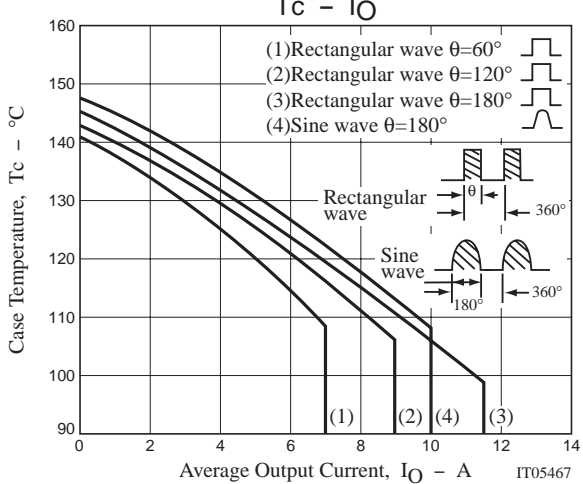
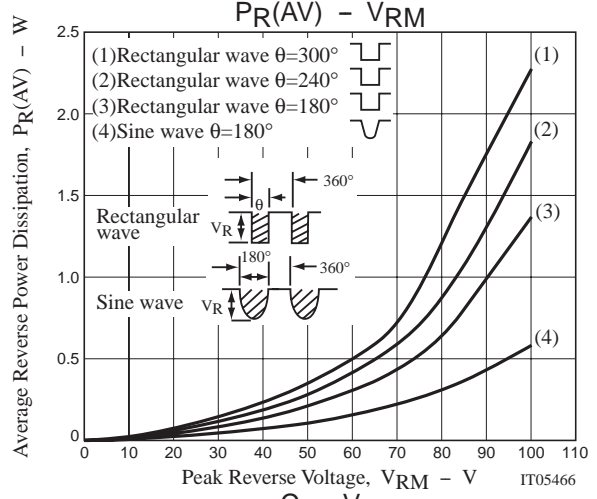
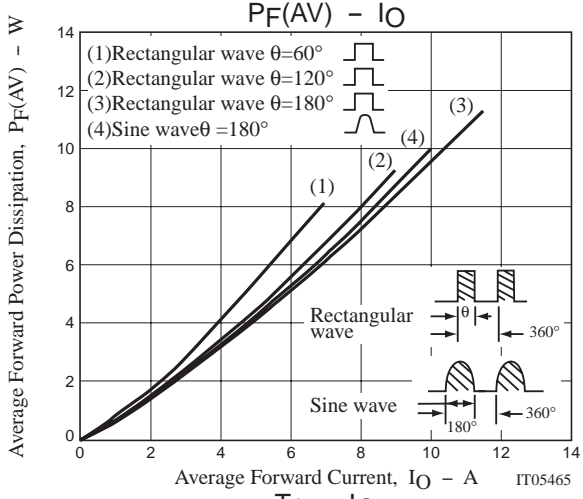
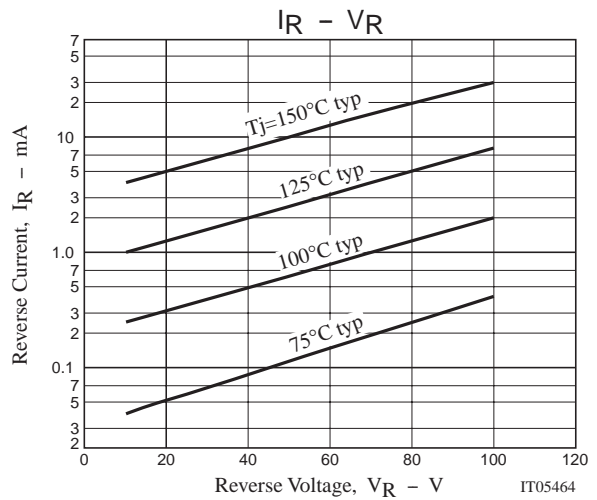
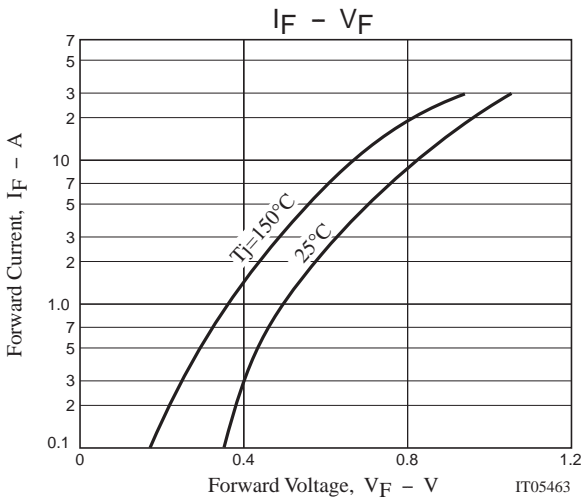
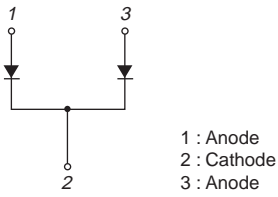
Package Dimensions

unit : mm
1320

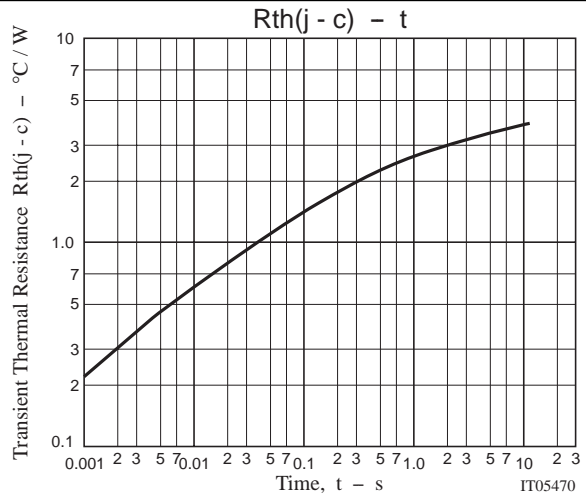
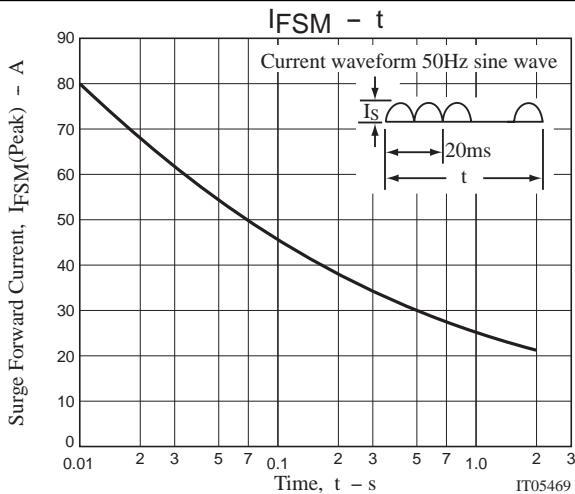
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