

**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 $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		100	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		105	V
Average Output Current	I_O	50Hz resistive load, $T_c=107^\circ\text{C}$	10	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	80	A
Junction Temperature	T_J		-55 to +150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

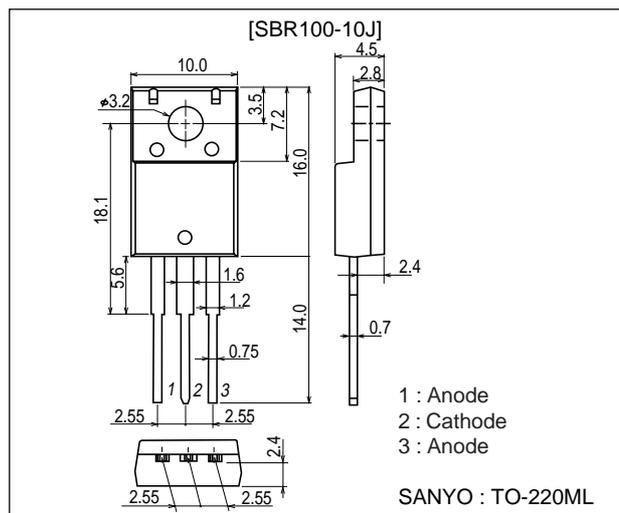
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=2\text{mA}$, $T_J=25^\circ\text{C}^*$	100			V
Forward Voltage	V_F	$I_F=5\text{A}$, $T_J=25^\circ\text{C}^*$			0.85	V
Reverse Current	I_R	$V_R=50\text{V}$, $T_J=25^\circ\text{C}^*$			100	μA
Interterminal Capacitance	C	$V_R=10\text{V}$, $T_J=25^\circ\text{C}^*$		170		pF
Thermal Resistance (Junction-Case)	$R_{th(j-c)}$	Junction-Case : Smoothed DC			4.0	$^\circ\text{C}/\text{W}$

Note : * Value per element

Package Dimensions

unit : mm

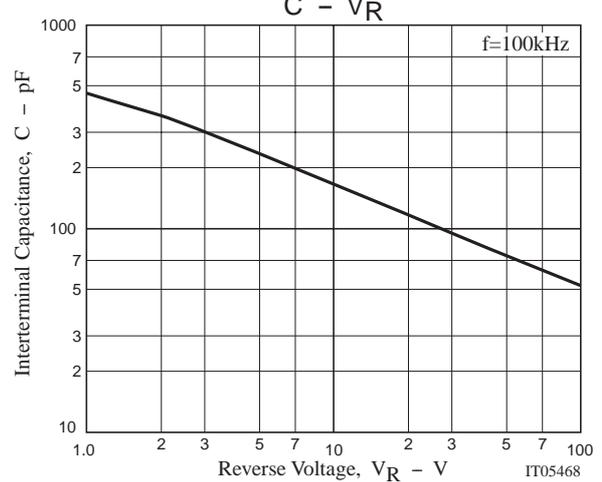
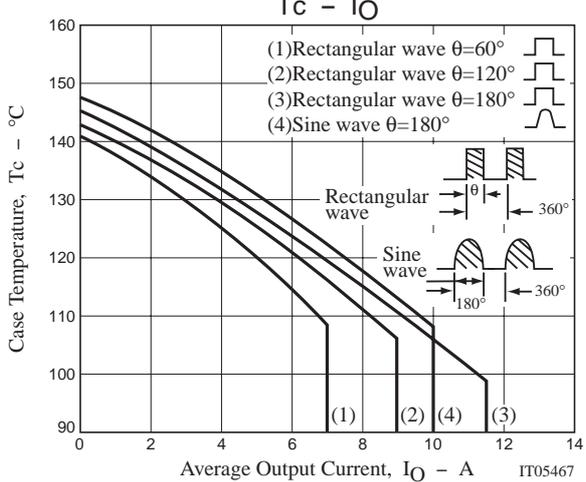
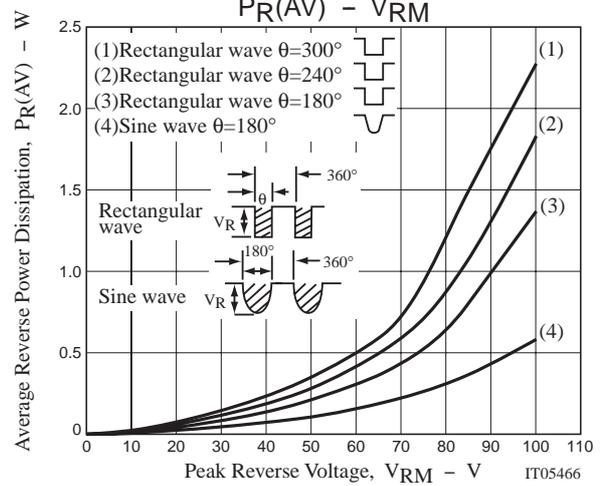
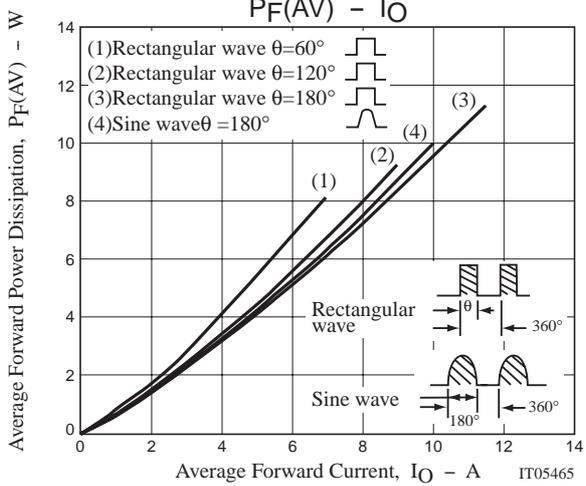
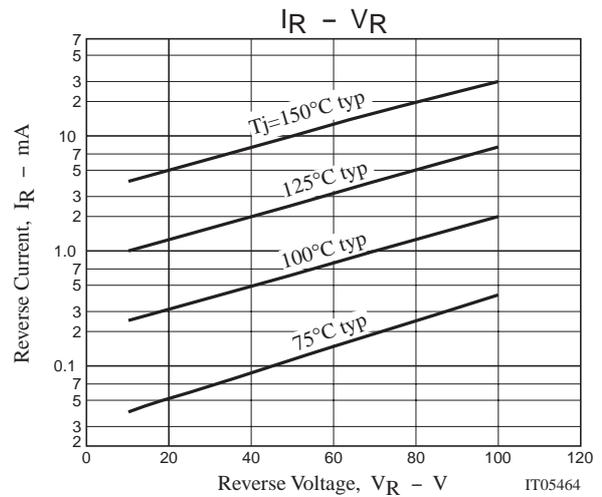
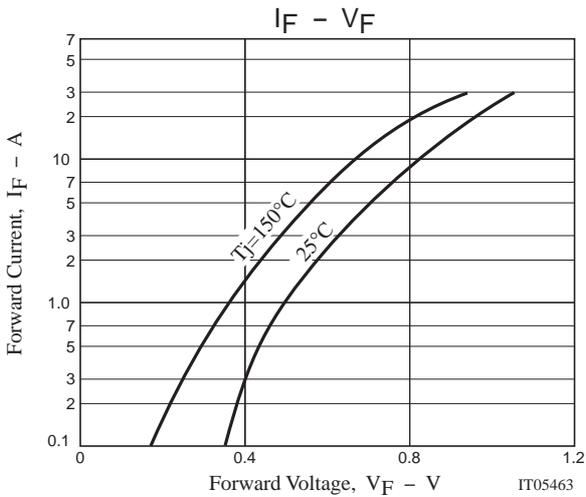
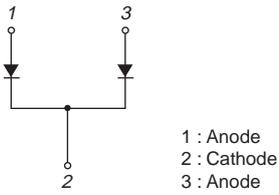
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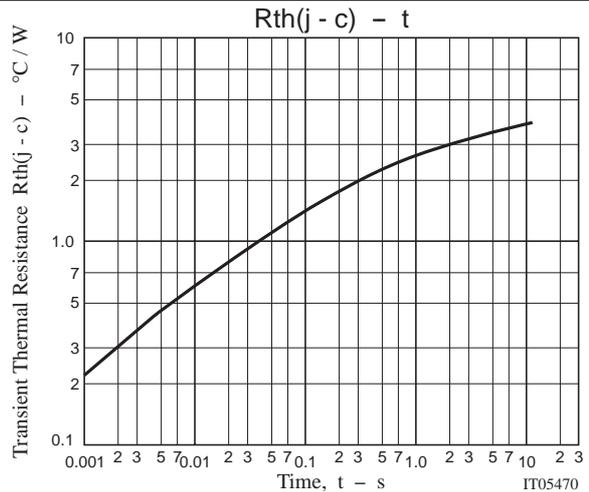
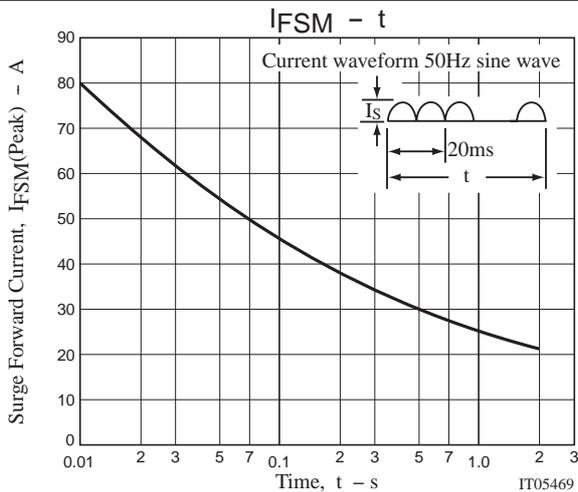
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