

SB100-05J

Schottky Barrier Diode (Twin Type · Cathode Common)

50V, 10A Rectifier

Applications

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

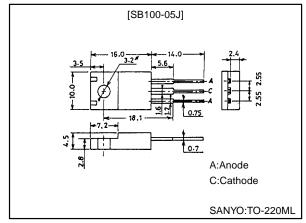
Features

- · Low forward voltage (V_F max=0.55V).
- · Fast reverse recovery time (trr max=60ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.
- · Micaless package facilitating easy mounting.

Package Dimensions

unit:mm

1178



Specifications

Absolute Maximum Ratings at Ta = 25°C

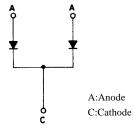
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		- 50	V
Non-repetitve Peak Reverse Surge Voltage	V _{RSM}		- 55	V
Average Output Current	Io	50Hz, resistive load, Tc=97°C	10	Α
Surege Forward Current	IFSM	50Hz sine wave, 1 cycle	100	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧ _R	I _R =-2mA, Tj=25°C*	-50			V
Forward Voltage	٧F	I _F =5A, Tj=25°C*			0.55	V
Reverse Current	I _R	V _R =-25V, Tj=25°C*			-0.5	mA
Reverse Recovery Time	trr	I _F =2A, Tj=25°C*, -dI _F /dt=10A/μs			60	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC			3.5	°C/W

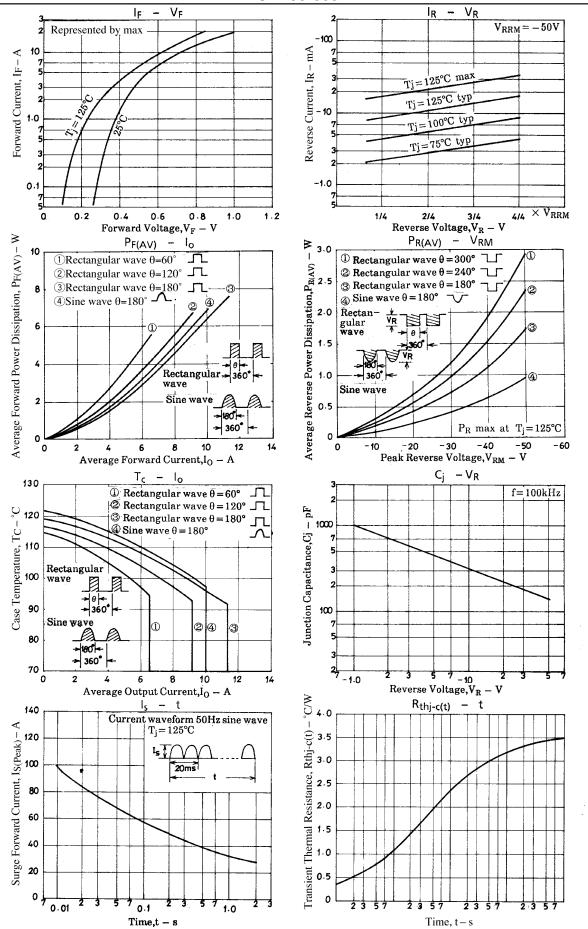
Note)*:Value per element

Electrical Connection



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