

SB300-05H

Schottky Barrier Diode (Twin Type - Cathode Common)

50V, 30A Rectifier

Applications

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

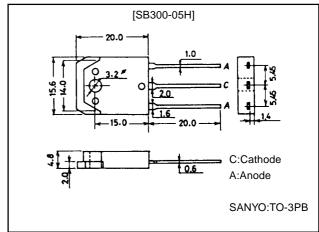
Features

- · Low forward voltage (V_F max=0.55V).
- · Fast reverse recovery time (trr max=90ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1160



Specifications

Absolute Maximum Ratings at Ta = 25°C

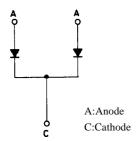
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		-50	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		- 55	V
Average Output Current	Io	50Hz, resistive load, Tc=101°C	30	А
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle	250	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

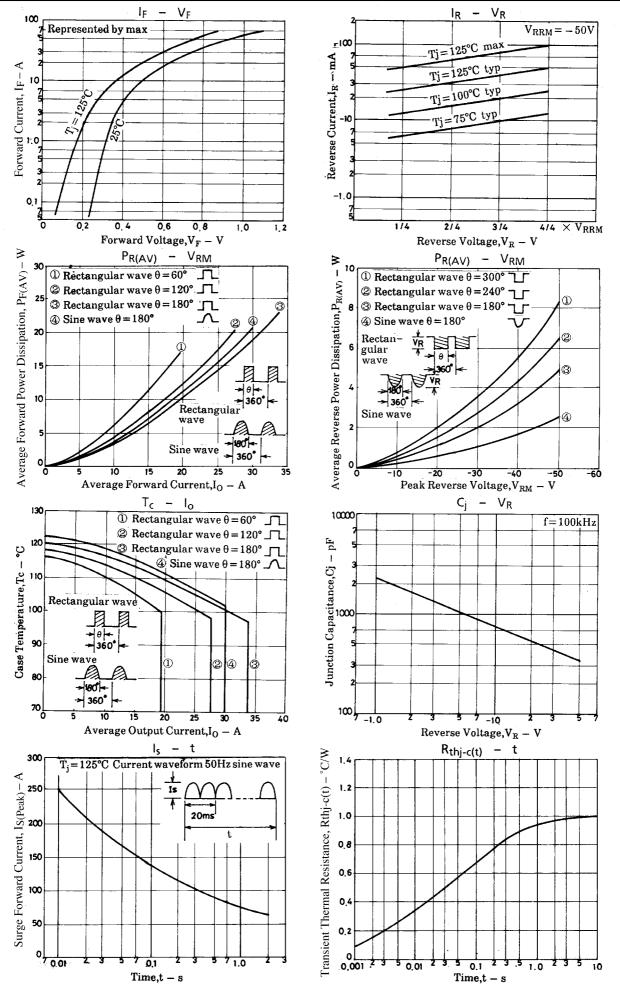
Electrical Characteristics

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I _R =-6mA, Tj=25°C*	-50			V
Forward Voltage	٧F	I _F =15A, Tj=25°C*			0.55	V
Reverse Current	IR	V _R =-25V, Tj=25°C*			-1.5	mA
Reverse Recovery Time	trr	I _F =2A, Tj=25°C*, -dI _F /dt=10A/μs			90	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC			1.0	°C/W

Note)*:Value per element

Electrical Connection





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