

SB250-05H

Schottky Barrier Diode (Twin Type - Cathode Common)

50V, 25A Rectifier

Applications

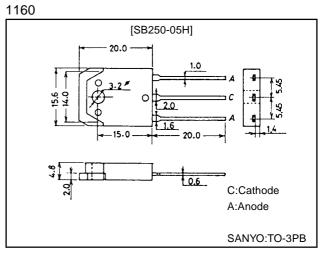
• High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage (V_F max=0.55V).
- \cdot 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



Specifications

Absolute Maximum Ratings at Ta = 25°C

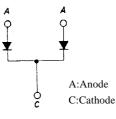
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		-50	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		-55	V
Average Output Current	IO	50Hz, resistive load, Tc=99°C	25	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	250	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics

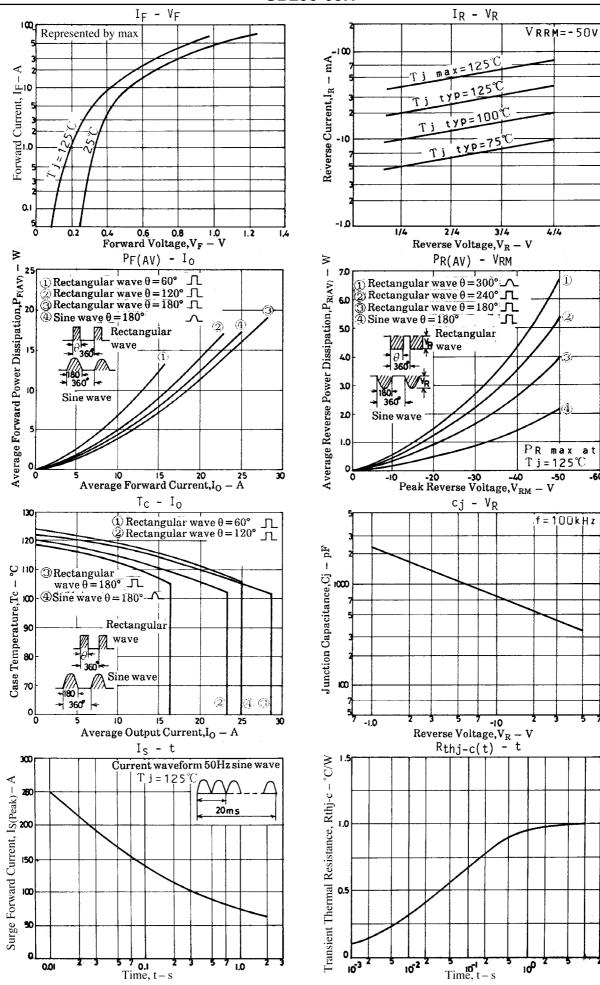
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	I _R =–6mA, Tj=25°C*	-50			V
Forward Voltage	VF	I _F =12.5A, Tj=25°C*			0.55	V
Reverse Current	۱ _R	V _R =–25V, Tj=25°C*			-1.2	mA
Reverse Recovery Time	trr	I _F =2A, Tj=25°C*, -dI _F /dt=10A/µs			90	ns
Thermal Resistance	Rthj-c	Junction-Case:Smoothed DC			1.0	°C/W

Note)*:Value per element

Electrical Connection



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a t

-60

-50

f=100kHz

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