Ordering number :EN2952



SB300-05R

Schottky Barrier Diode (Twin Type - Cathode Common)

50V, 30A Rectifier

Applications

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

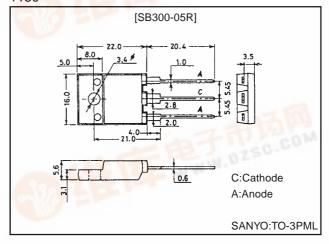
Features

- · 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.
- · Micaless package facilitating easy mounting.

Package Dimensions

unit:mm

1180



Specifications

Absolute Maximum Ratings at Ta = 25°C

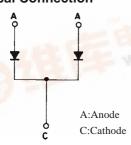
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		-50	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		-55	V
Average Output Current	Io	50Hz, resistive load, Tc=85°C	30	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	250	Α
Junction Temperature	Tj	180 / 4 6 4	-55 to +125	°C
Storage Temperature	Tstg	LEM ENVIOLE	-55 to +125	°C

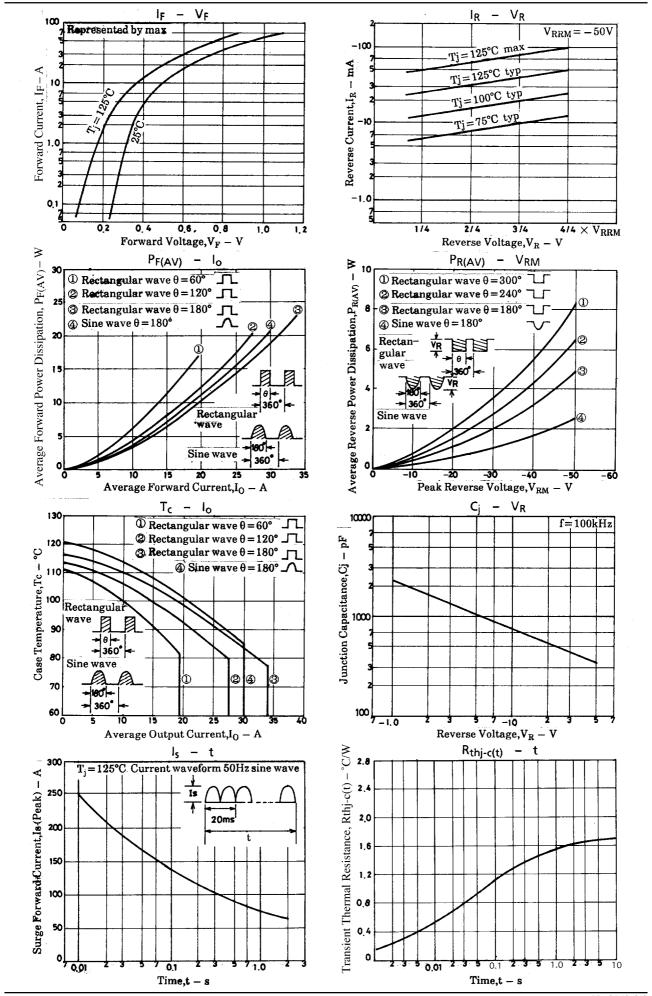
Electrical Characteristics

Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Reverse Voltage	V _R	I _R =-6mA, Tj=25°C*	-50			V
Forward Voltage	VF	I _F =15A, Tj=25°C*			0.55	V
Reverse Current	I _R	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		07	1.7	°C/W

Note)*:Value per element

Electrical Connection





SB300-05R

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