



SB30-09

Schottky Barrier Diode (Twin Type · Cathode Common)

90V, 3A Rectifier

Applications

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

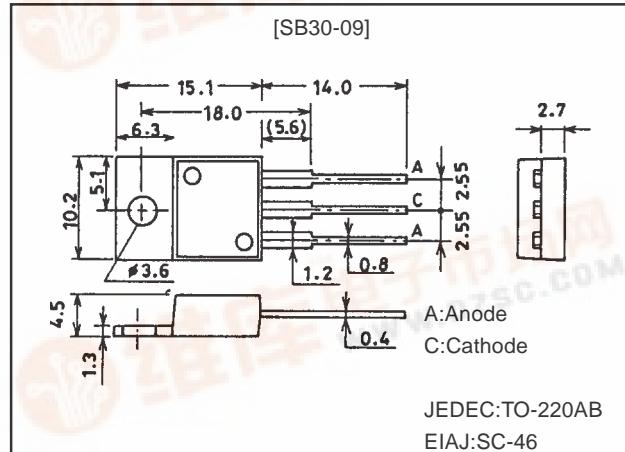
Features

- Low forward voltage (V_F max=0.85V).
- Fast reverse recovery time (trr max=30ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1159A



Specifications

Absolute Maximum Ratings at $T_a = 25^\circ C$

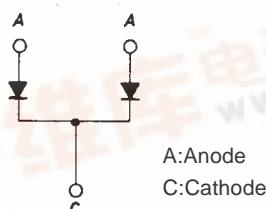
Parameter	Symbol	Conditions	Ratings		Unit
Repetitive Peak Reverse Voltage	V_{RRM}			90	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}			95	V
Average Output Current	I_O	50Hz, resistive load, $T_c=105^\circ C$		3	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle		40	A
Junction Temperature	T_j			-55 to +125	°C
Storage Temperature	T_{stg}			-55 to +125	°C

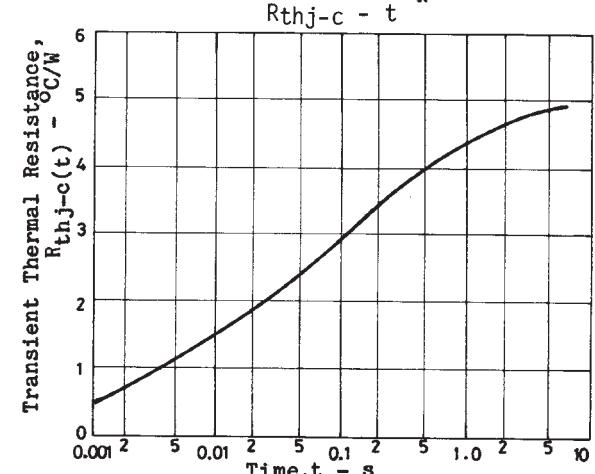
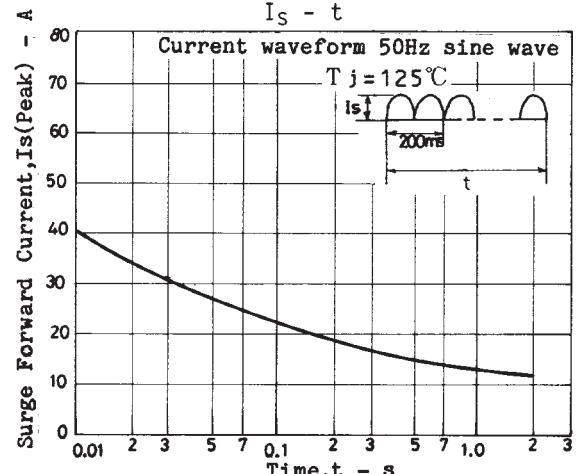
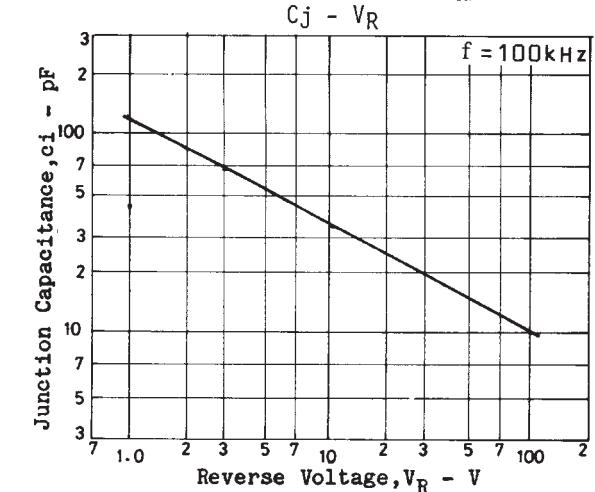
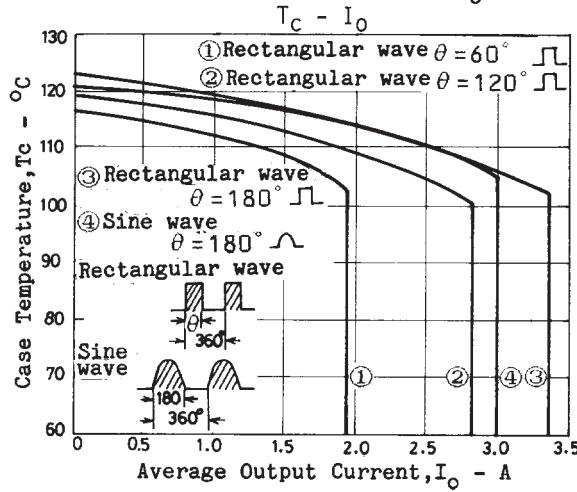
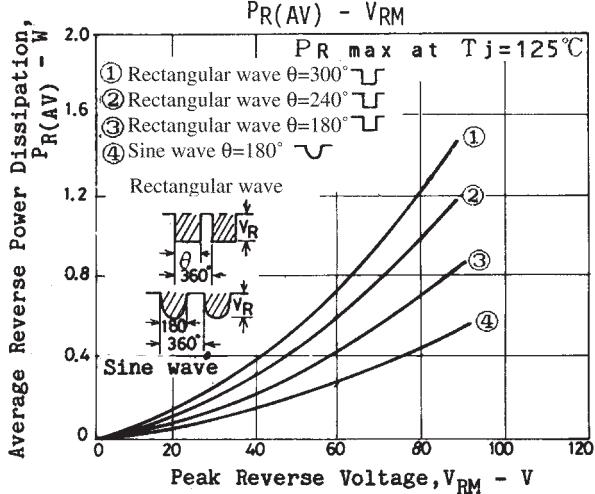
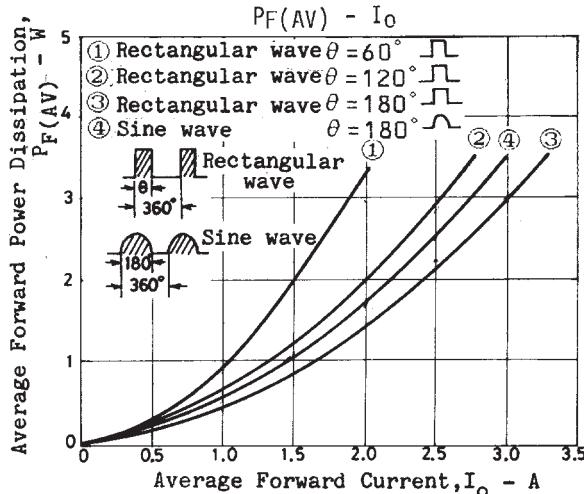
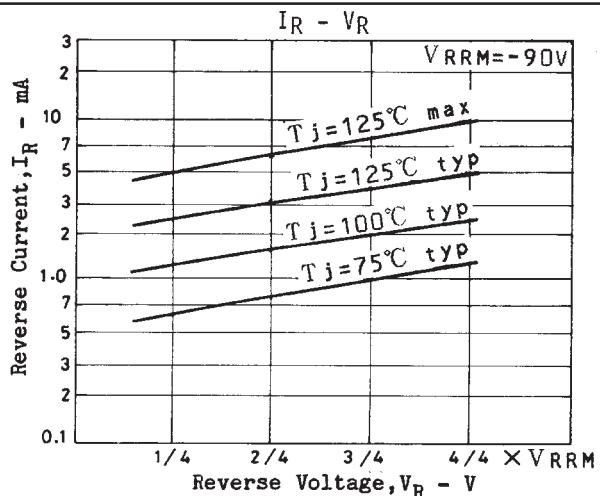
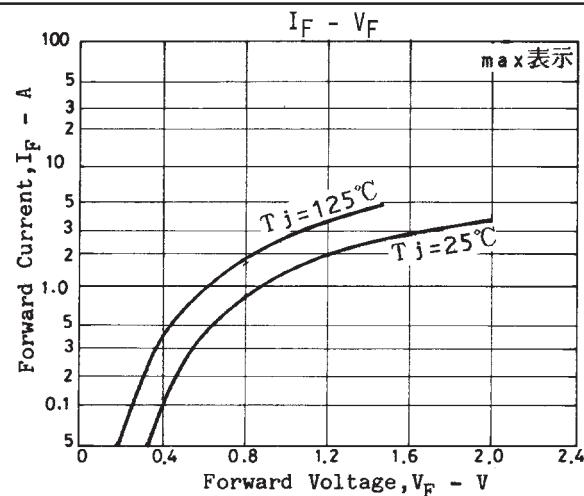
Electrical Characteristics at $T_a = 25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=0.5mA, T_j=25^\circ C, *$		90		V
Forward Voltage	V_F	$I_F=1.2A, T_j=25^\circ C, *$			0.85	V
Reverse Current	I_R	$V_R=45V, T_j=25^\circ C, *$			0.2	mA
Reverse Recovery Time	trr	$I_F=2A, T_j=25^\circ C, *, -dI_F/dt=10A/\mu s$			30	ns
Thermal Resistance	R_{thj-c}	Junction-Case:Smoothed DC			5.0	°C/W

Note: * Value per element

Electrical Connection





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