



SBA250-04R

Schottky Barrier Diode (Twin Type · Cathode Common)

40V, 25A Rectifier

Applications

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

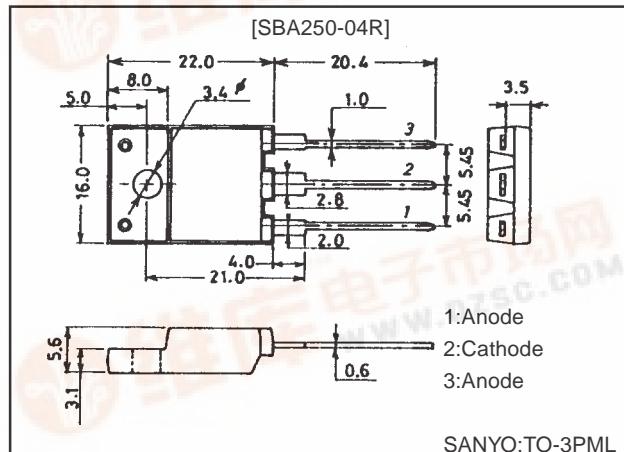
Features

- Low forward voltage (V_F max=0.55V).
- Fast reverse recovery time.
- Low switching noise.
- High reliability due to highly reliable planar structure.
- Micaless package facilitating easy mounting.

Package Dimensions

unit:mm

1180B



Specifications

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

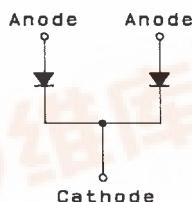
Parameter	Symbol	Conditions	Ratings		Unit
Repetitive Peak Reverse Voltage	V_{RRM}			40	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}			44	V
Average Output Current	I_O	50Hz, resistive load, $T_c=86^\circ C$		25	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle		200	A
Junction Temperature	T_j			-55 to +125	°C
Storage Temperature	T_{stg}			-55 to +125	°C

Electrical Characteristics

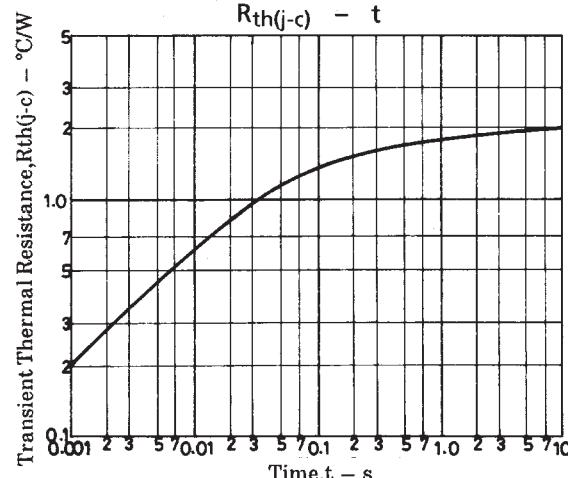
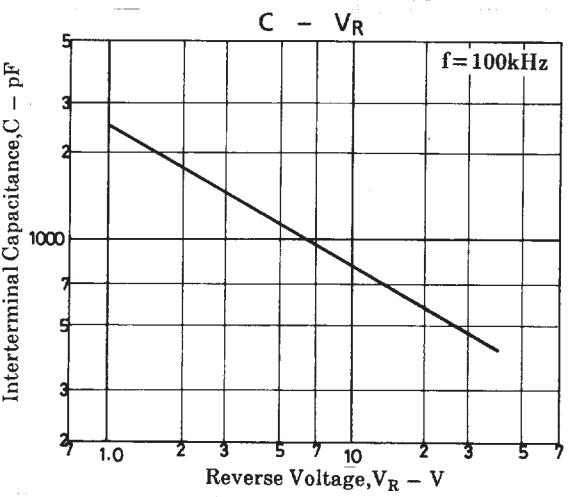
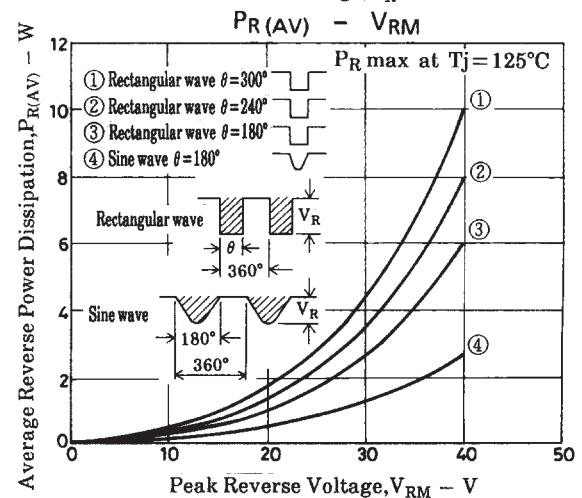
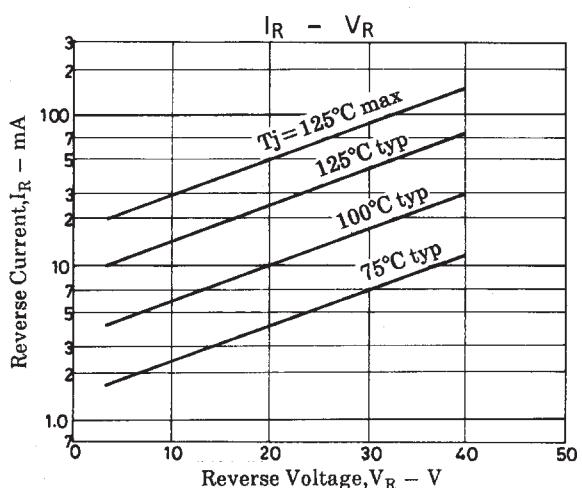
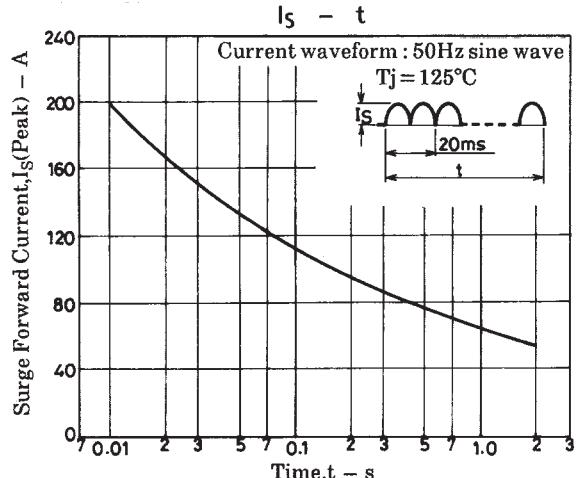
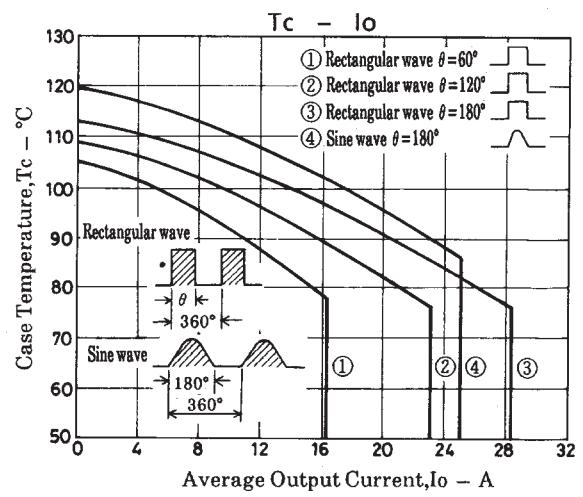
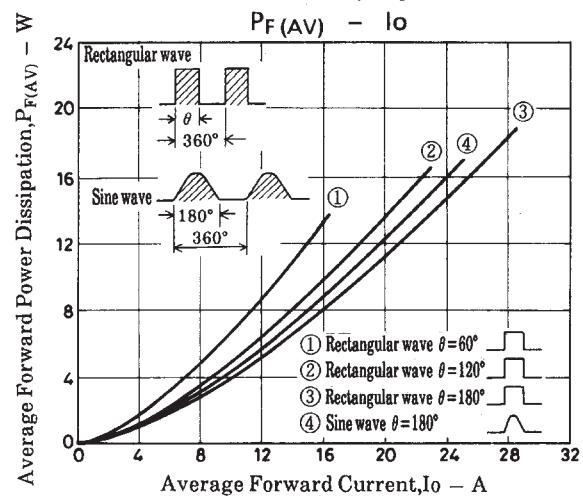
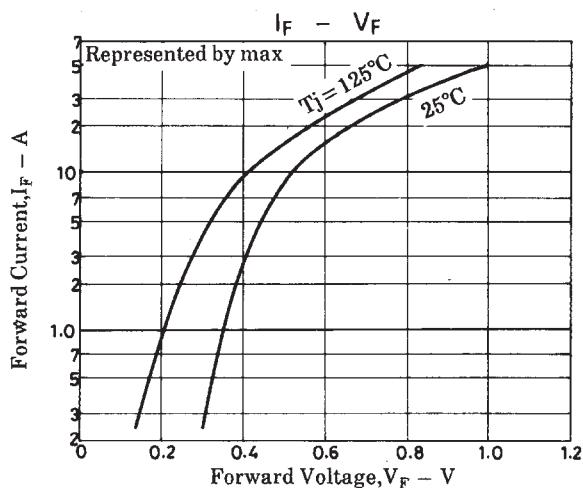
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=5mA, T_j=25^\circ C, *$	40			V
Forward Voltage	V_F	$I_F=12.5A, T_j=25^\circ C, *$			0.55	V
Reverse Current	I_R	$V_R=20V, T_j=25^\circ C, *$			0.5	mA
Interterminal Capacitance	C	$V_R=10V, T_j=25^\circ C, *$		800		pF
Thermal Resistance	$R_{th(j-c)}$	Junction-Case:Smoothed DC			2.0	°C/W

Note*:Value per element

Electrical Connection



SBA250-04R



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