

**SBA250-04R**

Schottky Barrier Diode (Twin Type - Cathode Common)

**40V, 25A Rectifier****Applications**

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

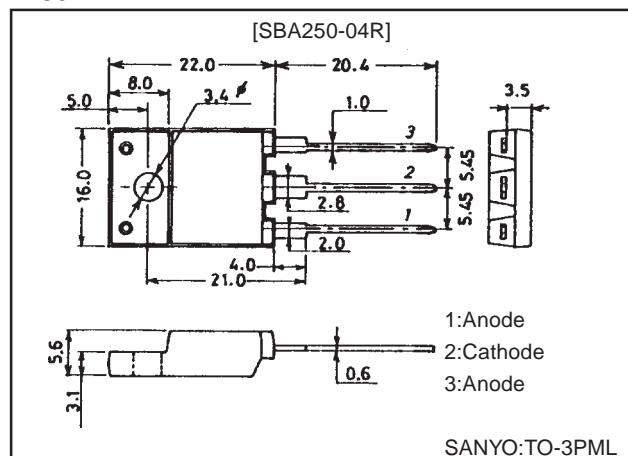
**Features**

- 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

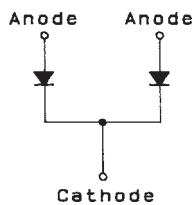
**Specifications****Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

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, $T_c=86^\circ\text{C}$	25	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	200	A
Junction Temperature	$T_j$		-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

**Electrical Characteristics**

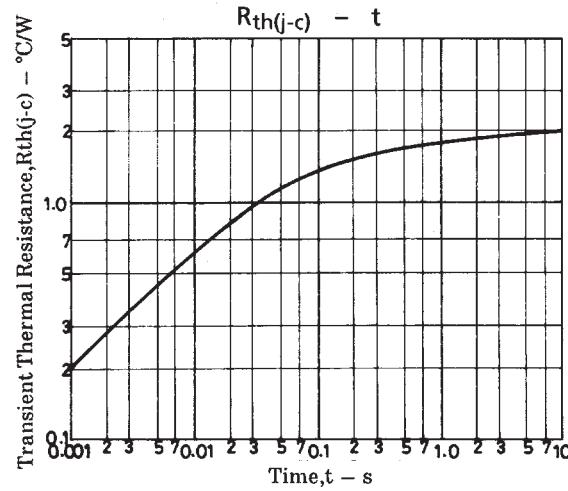
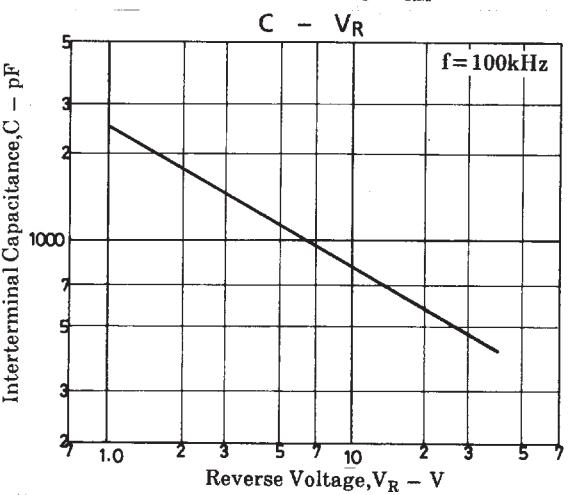
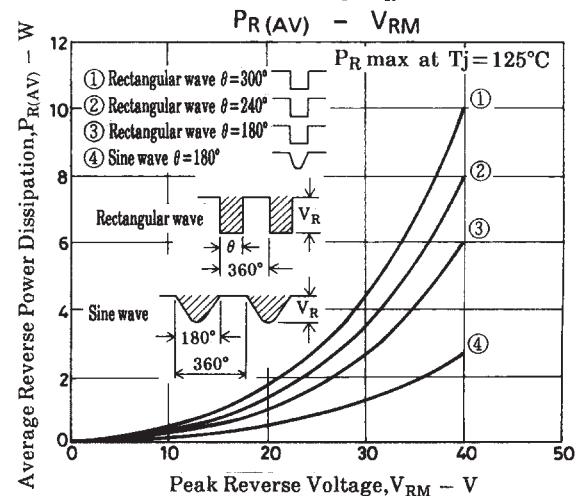
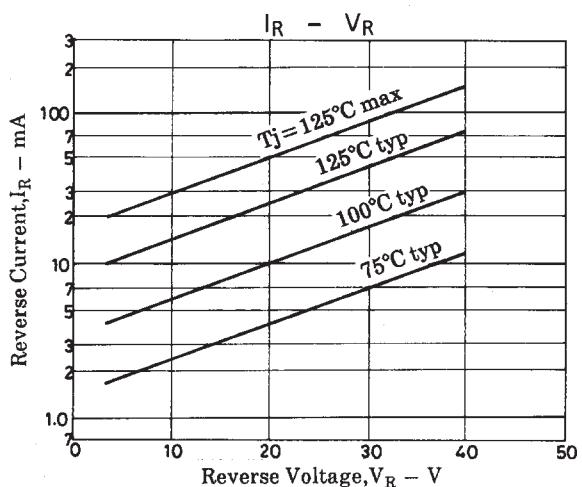
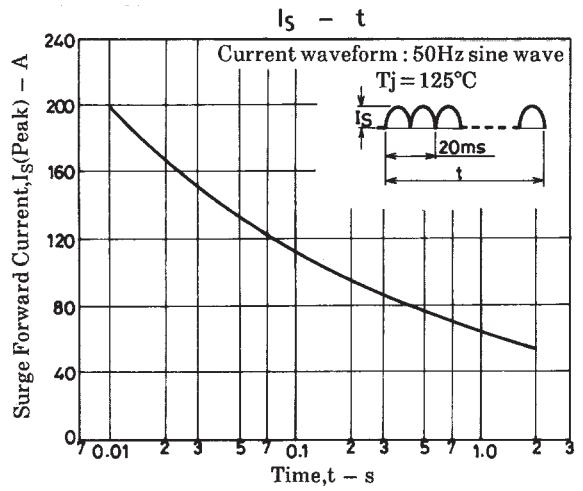
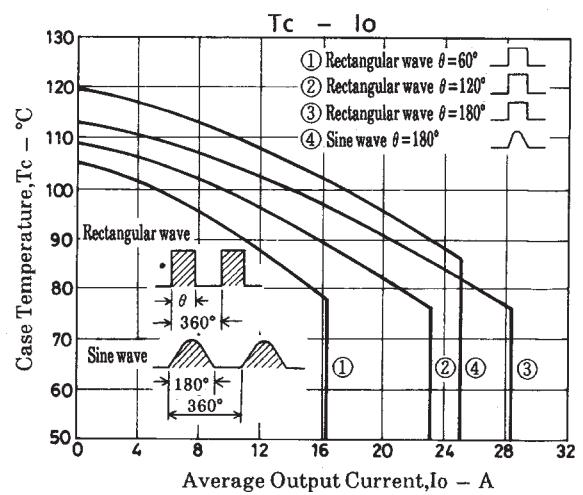
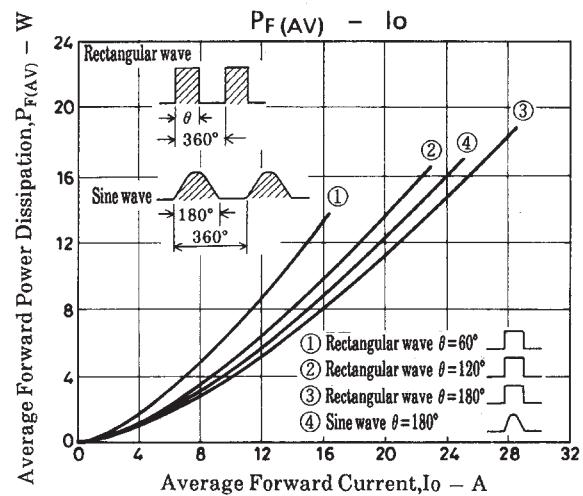
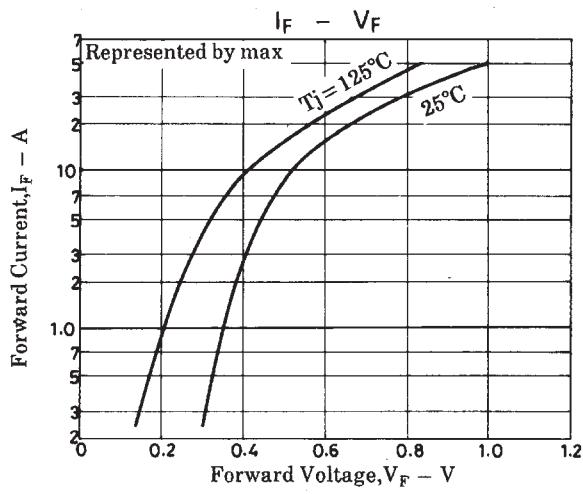
Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=5\text{mA}, T_j=25^\circ\text{C}, *$	40			V
Forward Voltage	$V_F$	$I_F=12.5\text{A}, T_j=25^\circ\text{C}, *$			0.55	V
Reverse Current	$I_R$	$V_R=20\text{V}, T_j=25^\circ\text{C}, *$			0.5	mA
Interterminal Capacitance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

Note\*:Value per element

**Electrical Connection****SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters**

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41098HA (KT)/11895MO (KOTO) AX-7815 No.4575-1/3



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