



SBA160-04R

## Schottky Barrier Diode (Twin Type - Cathode Common)

## 40V, 16A Rectifier

## Applications

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

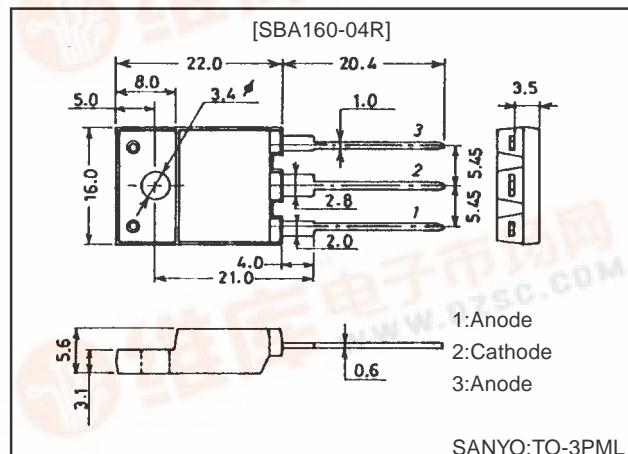
## Features

- 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 $T_a = 25^\circ\text{C}$

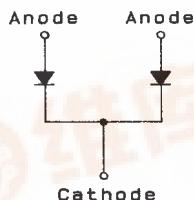
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		40	V
Nonrepetitive Peak Reverse Surge Voltage	$V_{RSM}$		44	V
Average Output Current	$I_O$	50Hz, resistive load, $T_c=95^\circ\text{C}$	16	A
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	120	A
Junction Temperature	$T_j$		-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

## Electrical Characteristics

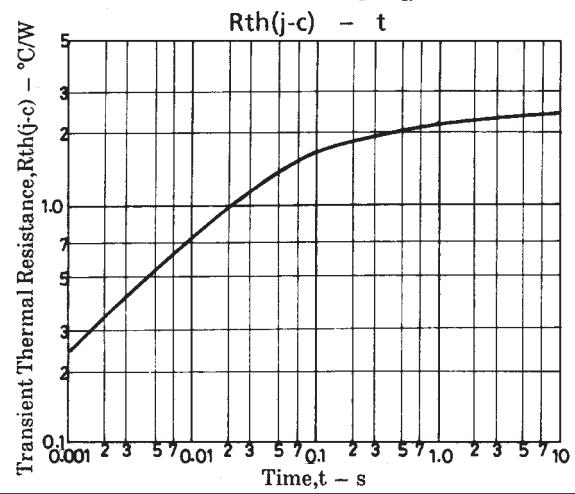
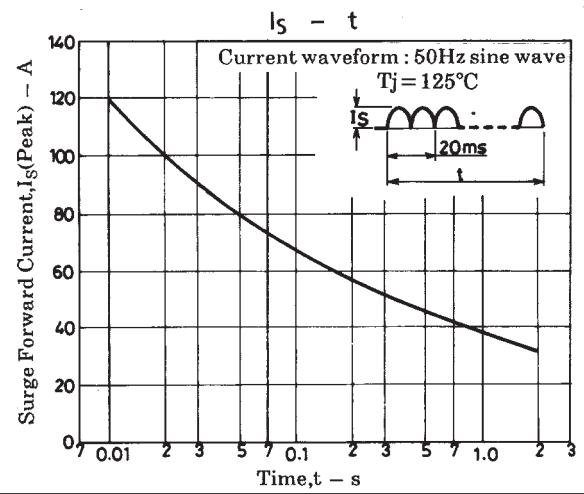
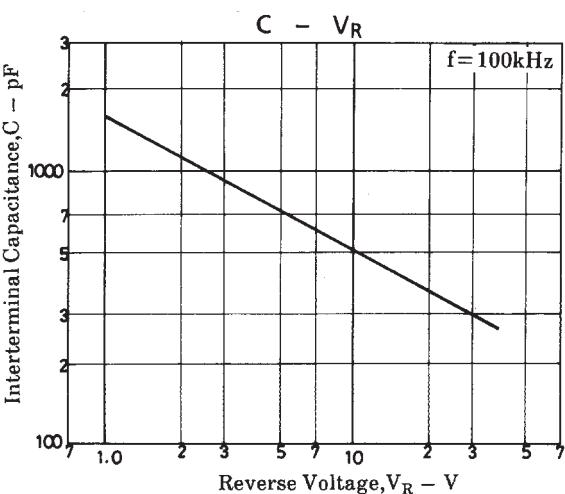
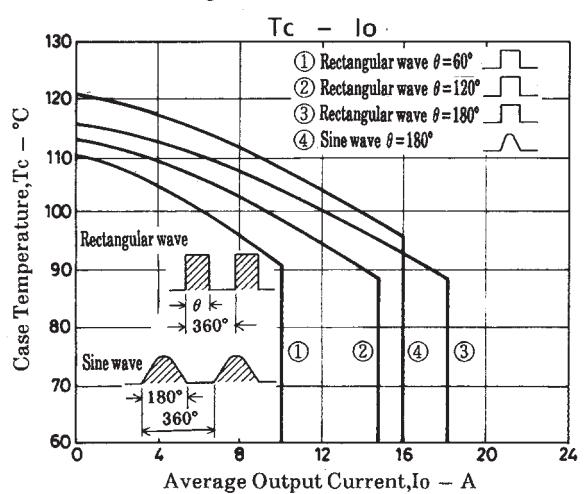
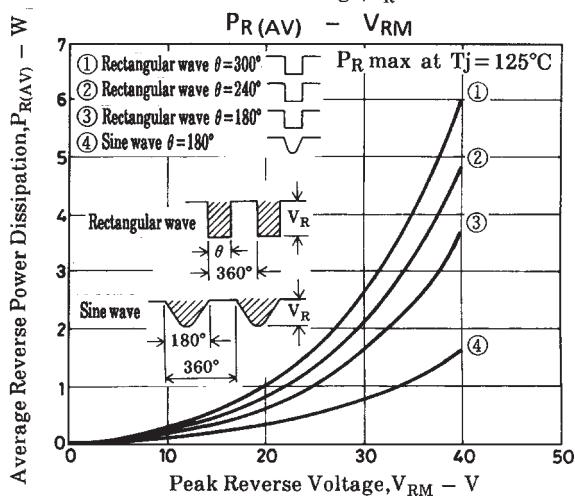
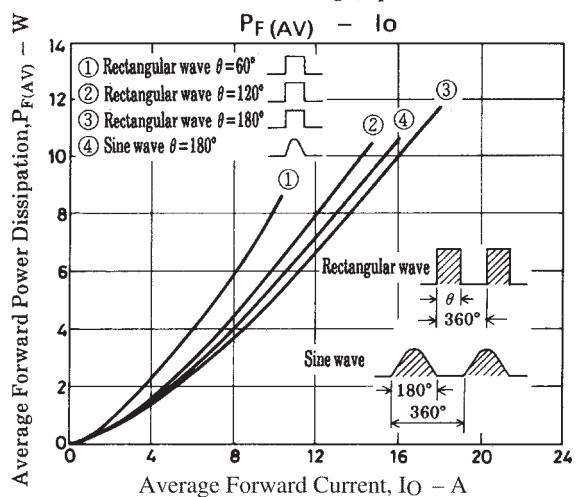
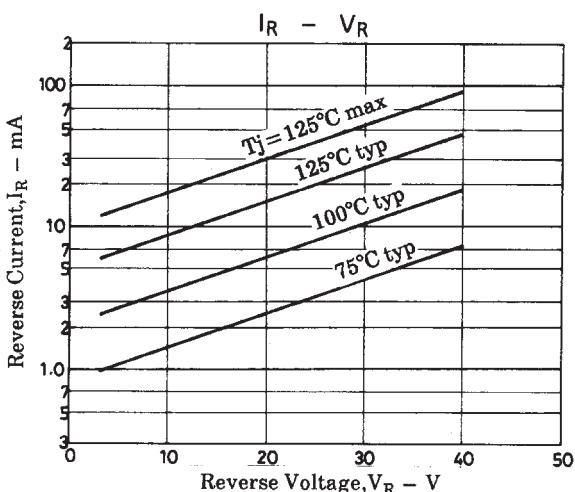
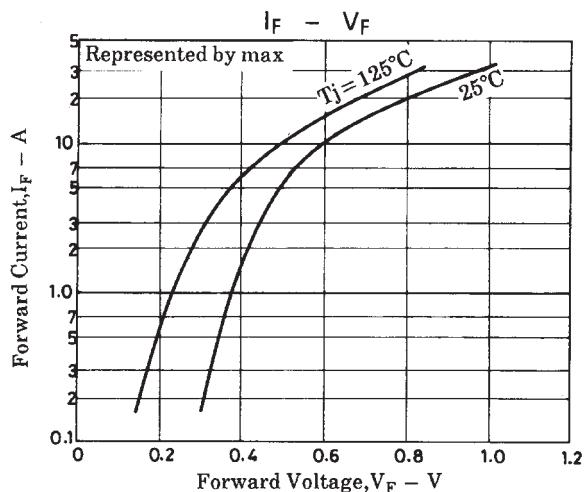
Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=3\text{mA}$ , $T_j=25^\circ\text{C}$ , *	40			V
Forward Voltage	$V_F$	$I_F=8\text{A}$ , $T_j=25^\circ\text{C}$ , *			0.55	V
Reverse Current	$I_R$	$V_R=20\text{V}$ , $T_j=25^\circ\text{C}$ , *			0.3	mA
Interterminal Capacitance	C	$V_R=10\text{V}$ , $T_j=25^\circ\text{C}$ , *		510		pF
Thermal Resistance	$R_{th(j-c)}$	Junction-Case:Smoothed DC			2.4	°C/W

Note\*:Value per element

## Electrical Connection



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