



SBA160-04Y

Schottky Barrier Diode (Twin Type · Cathode Common)

40V, 16A Rectifier

Applications

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

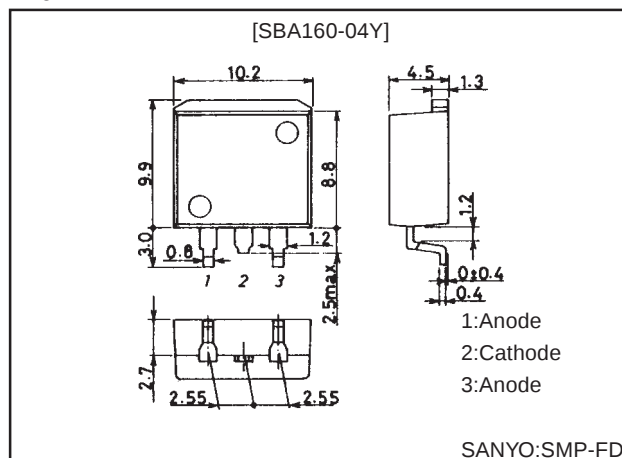
Features

- Low forward voltage (V_F max=0.55V).
- Fast reverse recovery time.
- Low switching noise.
- High reliability due to highly reliable planar structure.
- Surface mount type device facilitating compactness and high density of SBA160-04Y-applied sets.

Package Dimensions

unit:mm

1262A



Specifications

Absolute Maximum Ratings at Ta = 25°C

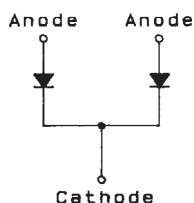
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		40	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		44	V
Average Output Current	I_O	50Hz, resistive load, $T_c=104^{\circ}\text{C}$	16	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	120	A
Junction Temperature	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	$I_R=3mA, T_J=25^{\circ}C, *$	40			V
Forward Voltage	V_F	$I_F=8A, T_J=25^{\circ}C, *$			0.55	V
Reverse Current	I_R	$V_R=20V, T_J=25^{\circ}C, *$			0.3	mA
Interterminal Capacitance	C	$V_R=10V, T_J=25^{\circ}C, *$		510		pF
Thermal Resistance	$R_{th(j-c)}$	Junction-Case:Smoothed DC			1.7	$^{\circ}C/W$

Note*:Value per element

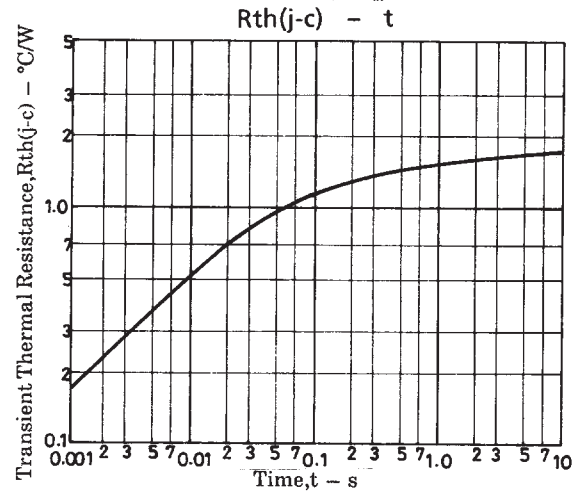
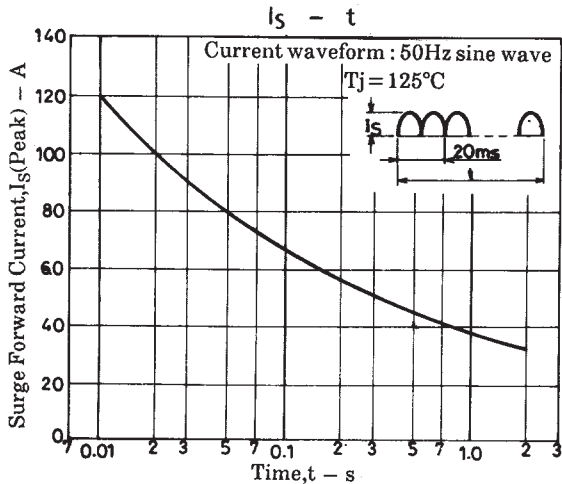
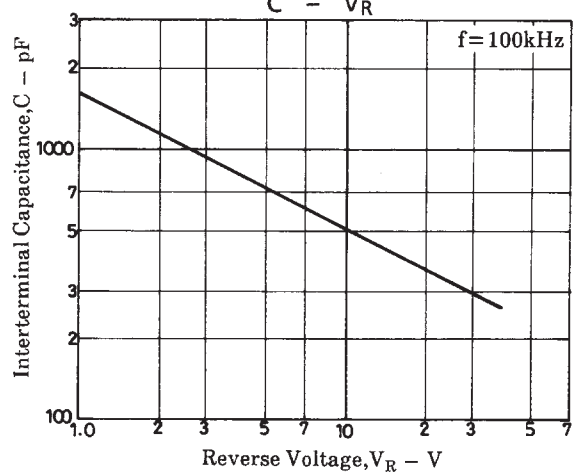
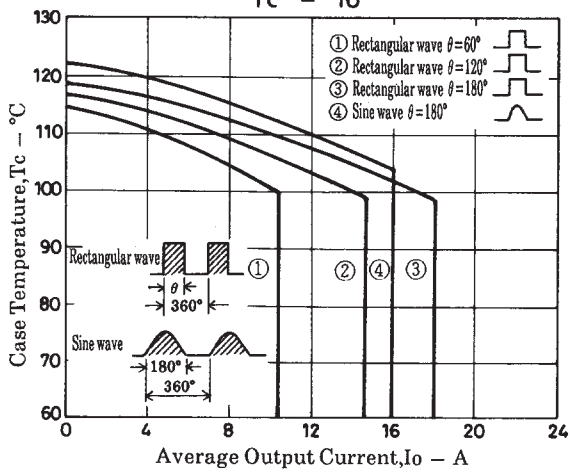
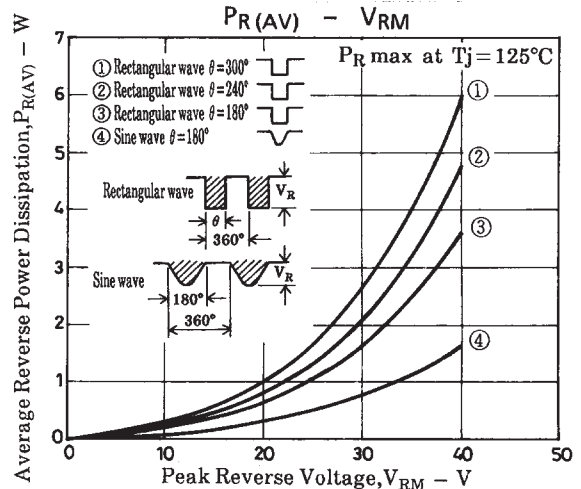
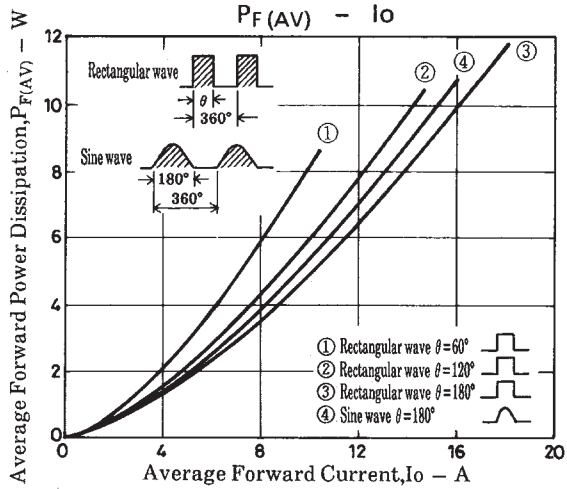
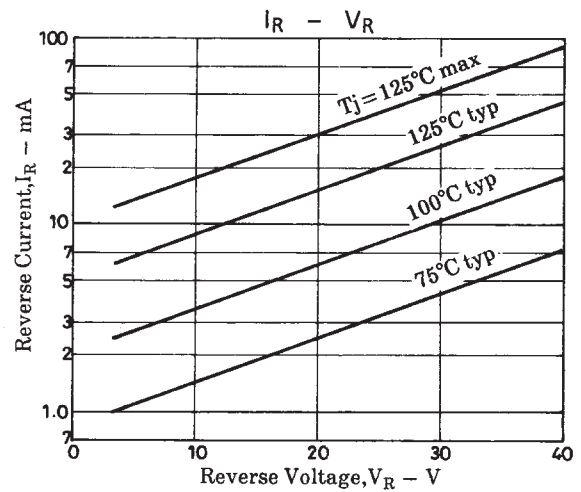
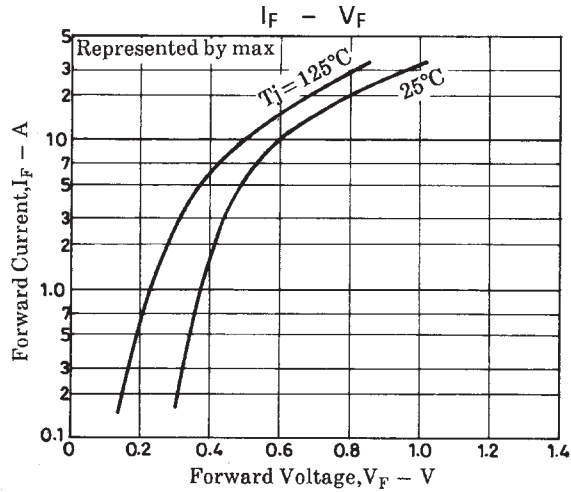
Electrical Connection



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