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Ordering number:EN4571

SBA50-04J

Schottky Barrier Diode (Twin Type · Cathode Common)

40V, 5A Rectifier

Applications

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

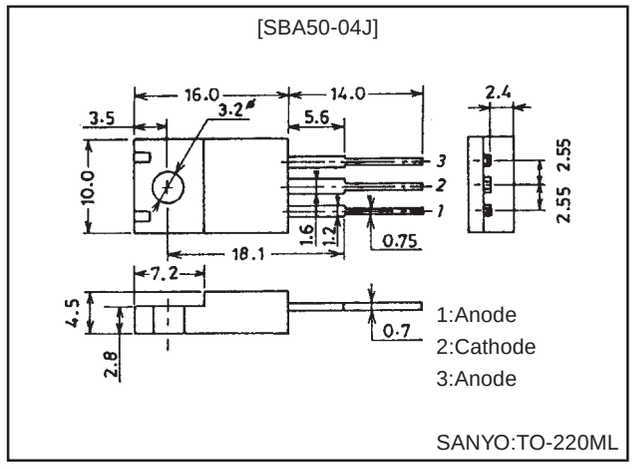
Features

· 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

1178A



Specifications

Absolute Maximum Ratings at Ta = 25˚C

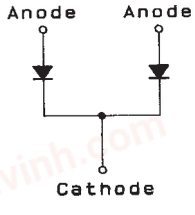
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		40	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		44	V
Average Output Current	I_O	50Hz, resistive load, Tc=105˚C	5	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	80	A
Junction Temperature	Tj		–55 to +125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

Electrical Characteristics

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=1mA, Tj=25˚C, *	40			V
Forward Voltage	V_F	I_F=2.5A, Tj=25˚C, *			0.55	V
Reverse Current	I_R	V_R=20V, Tj=25˚C, *			0.1	mA
Interterminal Capacitance	C	V_R=10V, Tj=25˚C, *		160		pF
Thermal Resistance	Rth(j-c)	Junction-Case:Smoothed DC			5.0	˚C/W

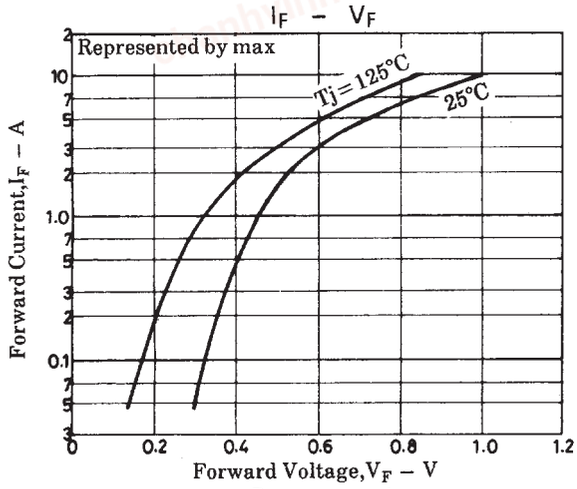
Note*:Value per element

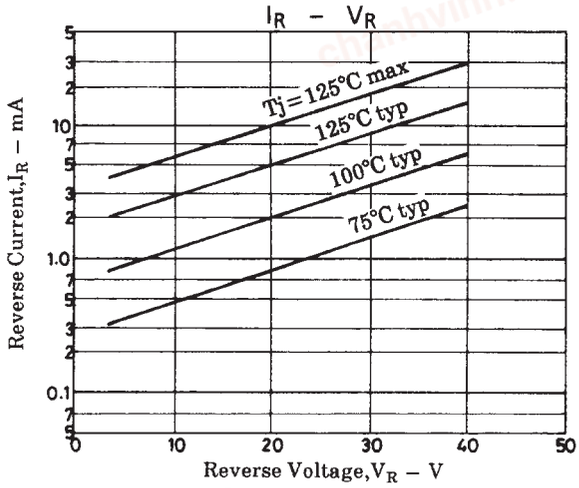
Electrical Connection

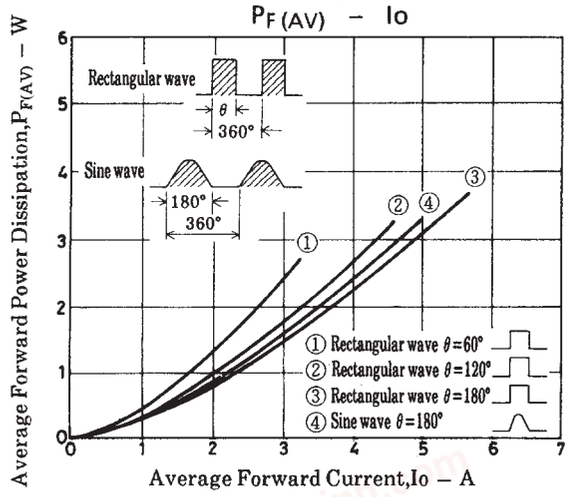


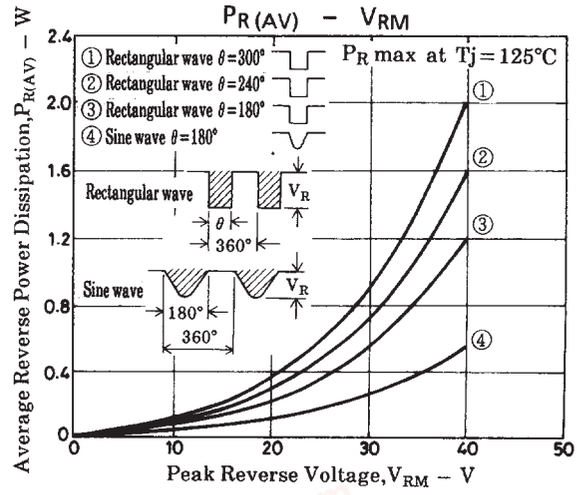
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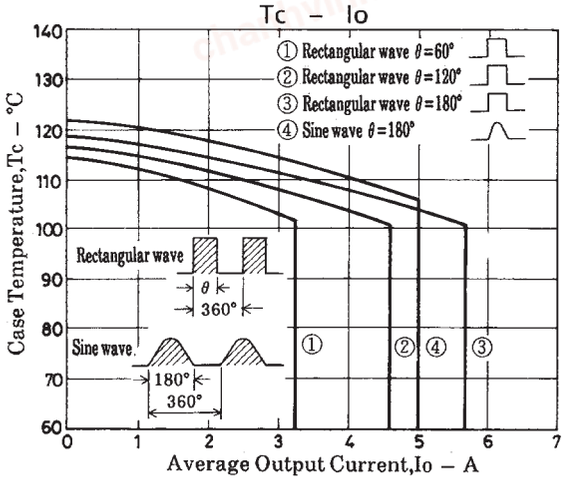
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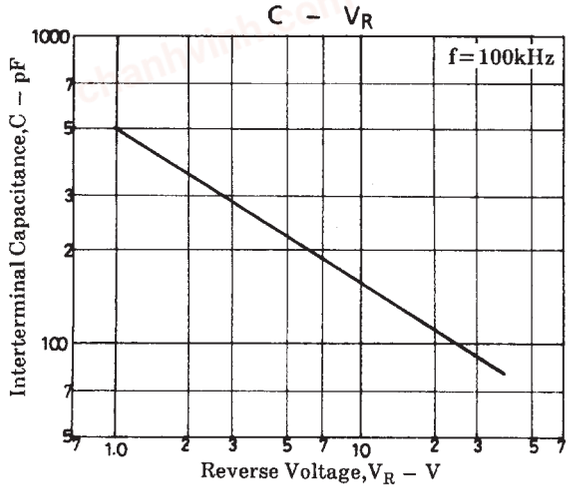


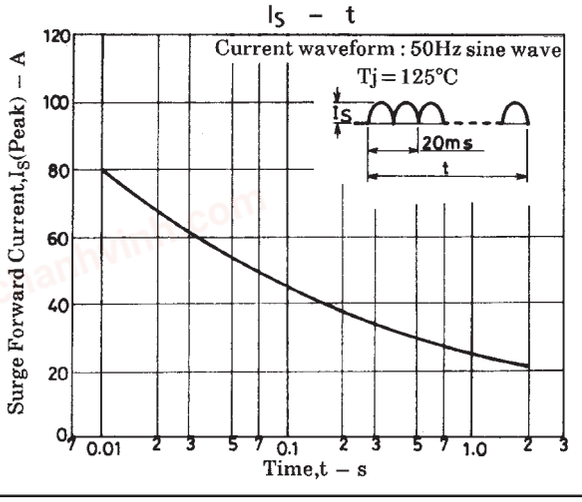


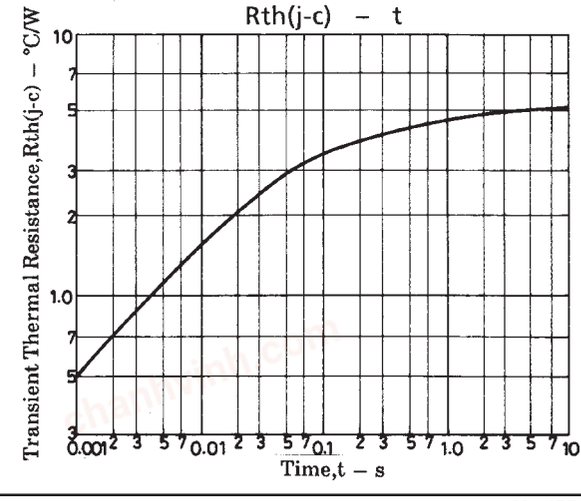












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