Ordering number :EN2999A

SB05-05P

Shottky Barrier Diode

50V, 500mA Rectifier

Applications

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

Features

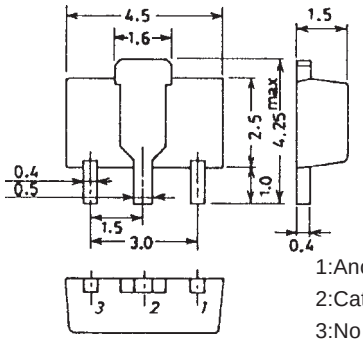
· Low forward voltage (V_F max=0.55V).
· Fast reverse recorvery time (trr max=10ns).
· Low switching noise.
· Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1163A

[SB05-05P]



1:Anode
2:Cathode
3:No Contact

SANYO:PCP

Specifications

Absolute Maximum Ratings at Ta = 25˚C

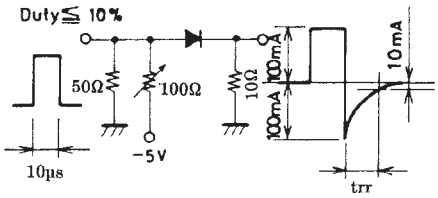
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		50	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		55	V
Average Output Current	I_O		500	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1cycle	5	A
Junction Temperature	Tj		–55 to +125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

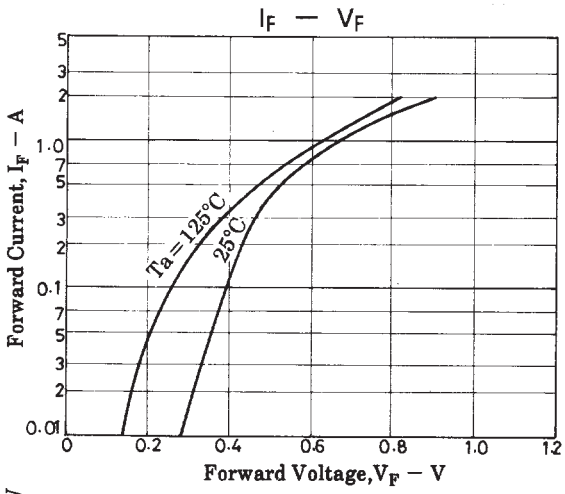
Electrical Characteristics at Ta = 25˚C

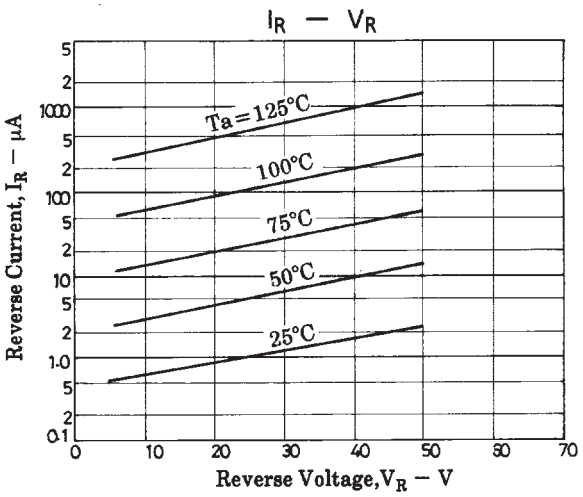
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=200μA	50			V
Forward Voltage	V_F	I_F=500mA			0.55	V
Reverse Current	I_R	V_R=25V			50	μA
Interterminal Capacitance	C	V_R=10V, f=1MHz		18		pF
Reverse Recorvery Time	trr	I_F=I_R=100mA, See specified Test Circuit			10	ns
Thermal Resistance(1)	Rthj-a(1)			310		˚C/W
Thermal Resistance(2)	Rthj-a(2)	Mounted on 250mm^2×0.8mm ceramic board		120		˚C/W

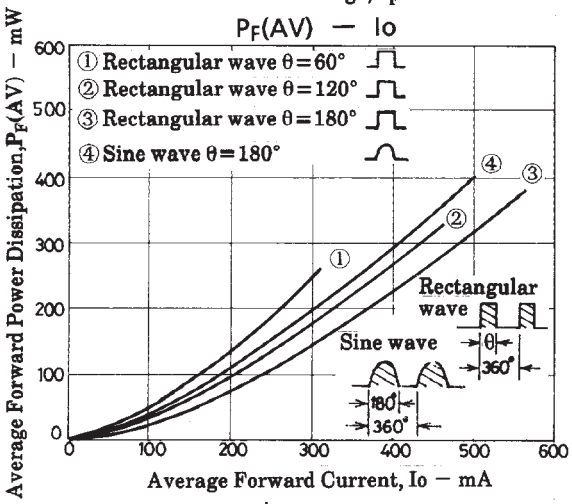
· Marking:SB

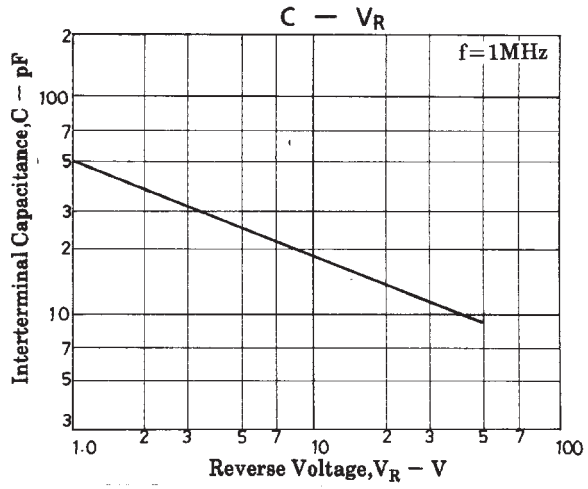
trr Test Circuit

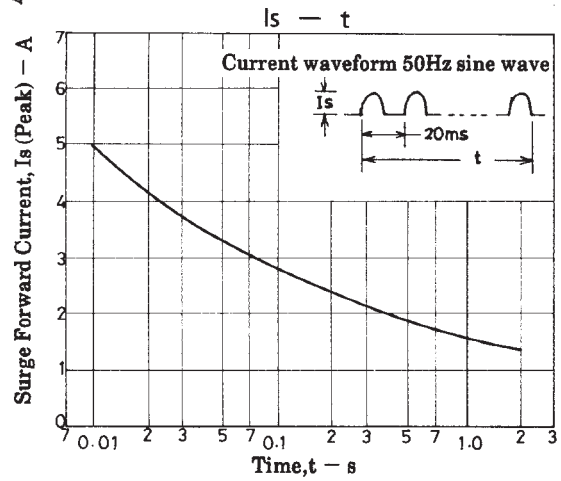












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