Ordering number :EN3617A

SB007T03C

Schottky Barrier Diode (Series Connection)

30V, 70mA Rectifier

Applications

- Universal-use rectifier.
- High frequency retification (switching regulators, converters, choppers).

Features

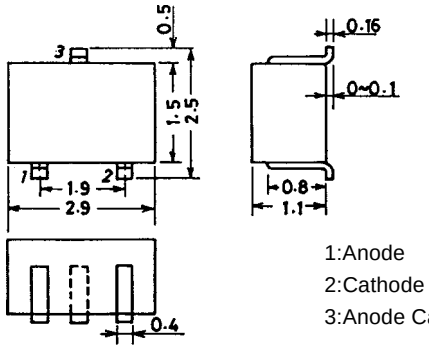
- Low forward voltage (V_F max=0.55V).
- Fast reverse recovery time (trr max=10ns).
- Low switching noise.
- Low leakage current and high reliability due to highly reliable planar structure.
- Series connection of 2 elements in a small-sized package facilitates high-density mounting and permits SB007T03C-applied equipment to be made smaller.

Package Dimensions

unit:mm

1147A

[SB007T03C]



1:Anode
2:Cathode
3:Anode Cathode

SANYO:CP

Specifications

Absolute Maximum Ratings at Ta = 25˚C (Value per element)

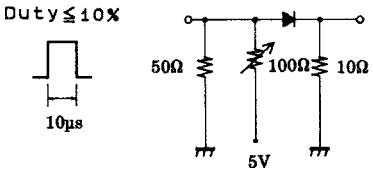
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		30	V
Non-repetitve Peak Reverse Surge Voltage	V_{RSM}		35	V
Average Output Current	I_O		70	mA
Surege Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	2	A
Junction Temperature	Tj		–55 to +125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

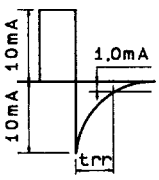
Electrical Characteristics at Ta = 25˚C (Value per element)

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=20μA	30			V
Forward Voltage	V_F	I_F=70mA			0.55	V
Reverse Current	I_R	V_R=15V			5	μA
Interterminal Capacitance	C	V_R=10V, f=1MHz		3.0		pF
Reverse Recovery Time	trr	I_F=I_R=10mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a			620		˚C/W

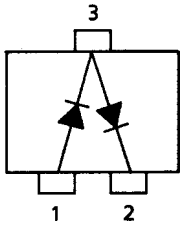
· Marking:N

trr Test Circuit





Electrical Connection



1:Anode
2:Cathode
3:Anode, Cathode