Ordering number :EN1914A

SB007-03CP

Shottky Barrier Diode

30V, 70mA Rectifier

Applications

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

Features

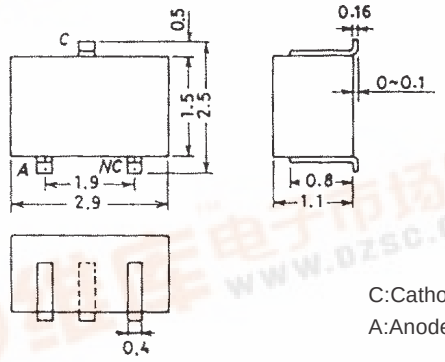
· Low forward voltage(V_F max=0.55V).
· Fast reverse recorvery time (trr max=10ns).
· Low switching noise.
· Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1148

[SB007-03CP]



C:Cathode
A:Anode

SANYO:CP

Specifications

Absolute Maximum Ratings at Ta = 25˚C

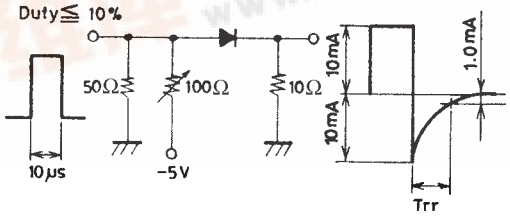
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		–30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		–35	V
Average Output Current	I_O		70	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1cycle	2	A
Junction Temperature	Tj		–55 to +125	˚C
Storage Temperature	Tstg	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

Electrical Characteristics at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=–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 Recorvery Time	trr	I_F=I_R=10mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a(1)			620		˚C/W
	Rthj-a(2)	Mounted on Cu-foild area of 16mm²×0.2mm on glass epoxy board		430		˚C/W

· Marking:G

trr Test Circuit



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