

SB07-03P

Shottky Barrier Diode

30V, 700mA Rectifier

Applications

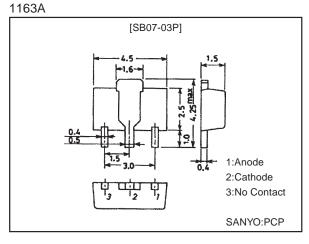
• High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage (V_F max=0.55V).
- \cdot 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



Specifications

Absolute Maximum Ratings at Ta = 25°C

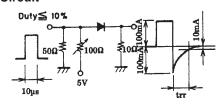
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		35	V
Average Output Current	I _O		700	mA
Surge Forward Current	IFSM	50Hz sine wave, 1cycle	5	A
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Reverse Voltage	VR	I _R =300μA	30			V
Forward Voltage	٧ _F	I _F =700mA			0.55	V
Reverse Current	IR	V _R =15V			80	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		26		pF
Reverse Recorvery Time	trr	IF=IR=100mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a(1)			310		°C/W
	Rthj-a(2)	Mounted on 250mm ² ×0.8mm ceramic board		120		°C/W

· Marking:SD

ttr Test Circuit



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