

SB02-03S

Schottky Barrier Diode

30V, 200mA Rectifier

Applications

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

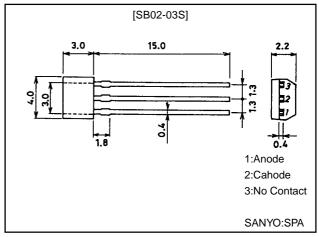
Features

- · Low forward voltage (V_F max=0.55V).
- · Fast reverse recovery time (t_{rr} max=10ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1156A



Specifications

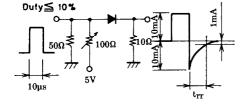
Absolute Maximum Ratings at Ta = 25°C

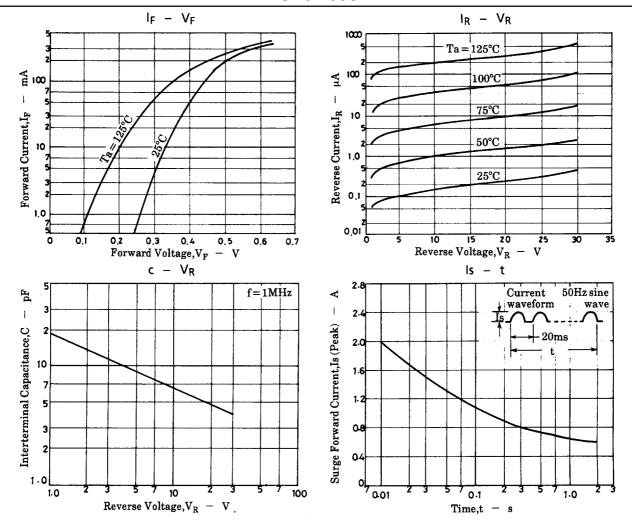
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		30	V
Non-repetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	Io		200	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	2	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	V_{R}	I _R =50μA	30			V
Forward Voltage	٧ _F	I _F =200mA			0.55	V
Reverse Current	IR	V _R =15V			15	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		6.6		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, See specified Test Circuit			10	ns
Thermal Resistance	Rth(j-a)			370		°C/W

t_{rr} Test Circuit





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