

SB01-05Q

Shottky Barrier Diode

50V, 100mA Rectifier

Applications

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

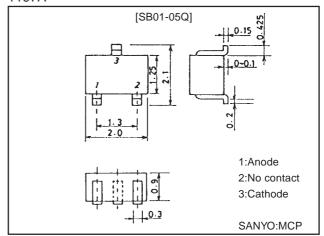
Features

- · 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.
- · Very small-sized package, permitting SB01-05Q-applied sets to be compact and slim.

Package Dimensions

unit:mm

1197A



Specifications

Absolute Maximum Ratings at Ta = 25°C

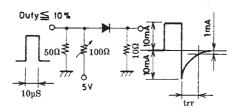
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		50	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		55	V
Average Output Current	Io		100	mA
Surge Forward Current	I _{FSM}	50Hz sine wave, 1cycle	2	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

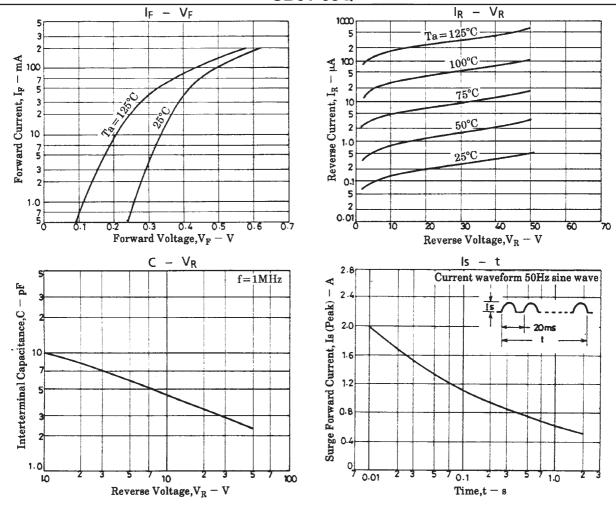
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Reverse Voltage	VR	I _R =50μA	50			V
Forward Voltage	٧ _F	I _F =100mA			0.55	V
Reverse Current	I _R	V _R =25V			15	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		4.4		pF
Reverse Recorvery Time	trr	I _F =I _R =10mA, See specified Test Circuit			10	ns

· Marking:A

trr Test Circuit



SB01-05Q



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