

SANYO Semiconductors DATA SHEET

SB007T03Q

Schottky Barrier Diode (Series Connection)

30V, 70mA Rectifier

Applications

- · Universal-use rectifiers.
- · High frequency rectification (switching regulators, converters, choppers).

Features

- Low forward voltage (VF 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 an ultrasmall-sized package facilitates high-density mounting and permits SB007T03Q-applied equipment to be made smaller.

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	lo		70	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

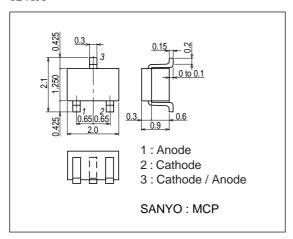
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Reverse Voltage	VR	IR=20μA	30			V
Forward Voltage	VF	IF=70mA			0.55	V
Reverse Current	IR	V _R =15V			5	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		3.0		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm ² X0.8mm)		650		°C / W

Marking: N

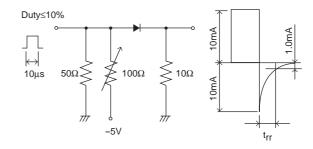
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Package Dimensions

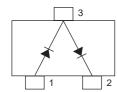
unit : mm 1246A



trr Test Circuit

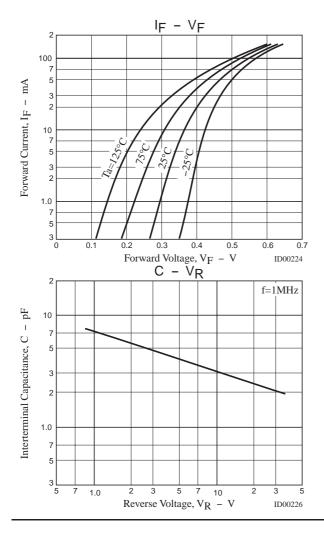


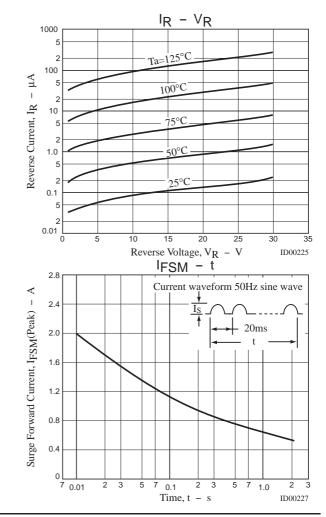
Electrical Connection



- 1 : Anode
- 2: Cathode
- 3: Cathode / Anode

Top view





SB007T03Q

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