

SB007T03Q

Schottky Barrier Diode (Series Connection)

30V, 70mA Rectifier

Applications

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

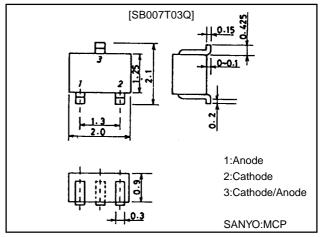
Features

- · Low forward voltage (V_F max=0.55V).
- \cdot Fast reverse recovery time (t_{rr} max=10ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.
- Series connection of 2 elements in an ultrasmallsized package facilitates high-density mounting and permits SB007T03Q-applied equipment to be made smaller.

Package Dimensions

unit:mm

1246A



Specifications

Absolute Maximum Ratings at Ta = 25°C

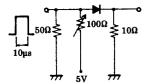
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Non-repetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	lo		70	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	2	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

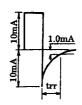
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
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	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	R _{th(i-a)}			650		°C/W

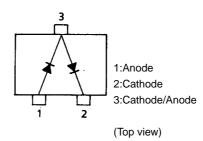
Marking: N

t_{rr} Test Circuit Duty≤ 10%

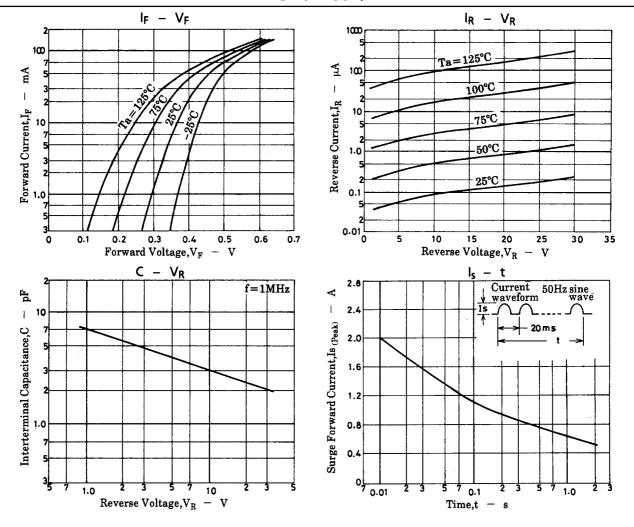




Electrical Connection



SB07T03Q



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