

SB007T03C

Schottky Barrier Diode (Series Connection)

30V, 70mA Rectifier

Applications

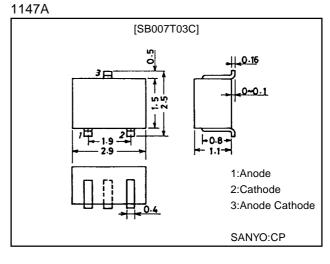
- \cdot Universal-use rectifier.
- High frequency retification (switching regulators, converters, choppers).

Features

- · Low forward voltage (V_F max=0.55V).
- \cdot 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 a small-sized package facilitates high-density mounting and permits SB007T03C-applied equipment to be made smaller.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at Ta = 25°C (Value per element)

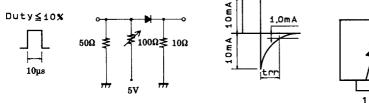
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Non-repetitve Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	IO		70	mA
Surege Forward Current	IFSM	50Hz sine wave, 1 cycle	2	А
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		–55 to +125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

Electrical Characteristics at Ta = 25°C (Value per element)

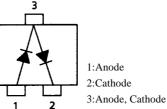
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	VR	I _R =20µA	30			V
Forward Voltage	VF	I _F =70mA			0.55	V
Reverse Current	IR	V _R =15V			5	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		3.0		pF
Reverse Recovery Time	trr	I _F =I _R =10mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a			620		°C/W

· Marking:N

trr Test Circuit

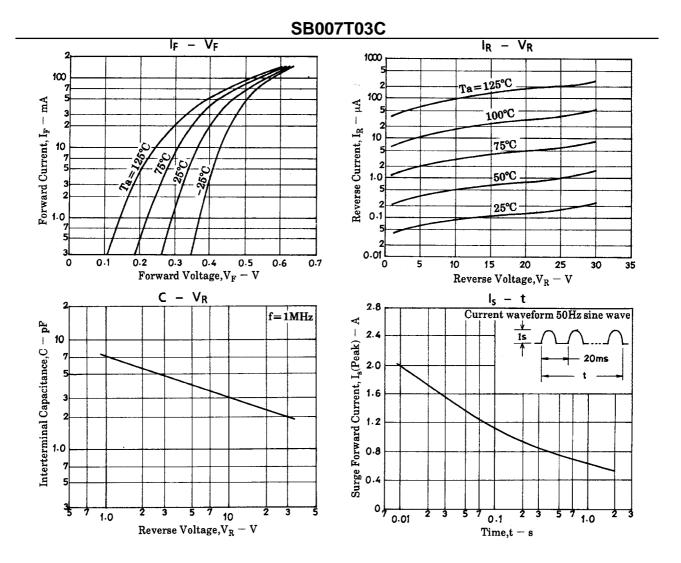


Electrical Connection



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