

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SANYO Semiconductors **DATA SHEET**

SBT100-10G — Schottky Barrier Diode (Twin Type · Cathode Common) 100V, 10A Rectifier

Applications

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

Features

- · Tj=150°C.
- · Short reverse recovery time.
- · Low switching noise.
- · High reliability due to planar structure.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		100	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		105	V
Average Output Current	lo	50Hz resistive load, Sine wave Tc=73°C	10	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	60	Α
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

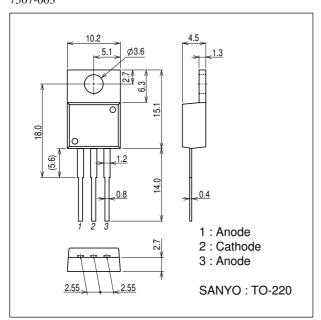
Parameter	Symbol	Conditions		Ratings		
	Cymbol		min	typ	max	Unit
Reverse Voltage	VR	I _R =1mA, Tj=25°C*	100			V
Forward Voltage	VF	I _F =3.5A, Tj=25°C*			0.88	V
Reverse Current	IR	V _R =50V, Tj=25°C*			100	μΑ
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		90		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.6	°C / W

Note) * : Value per element

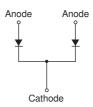
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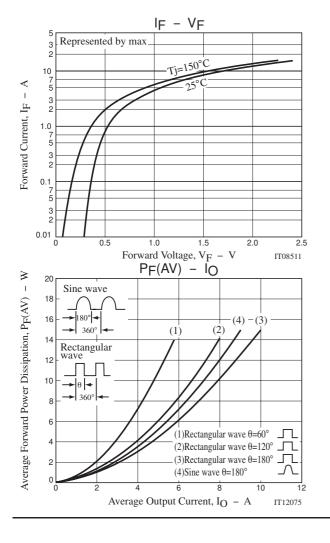
Package Dimensions

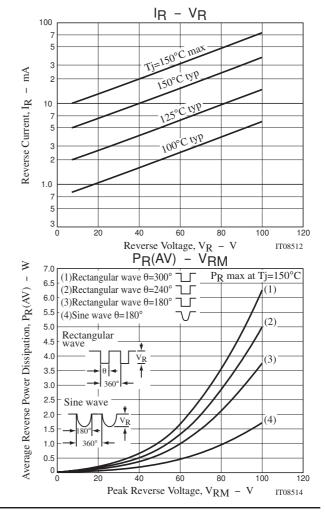
unit : mm (typ) 7507-003



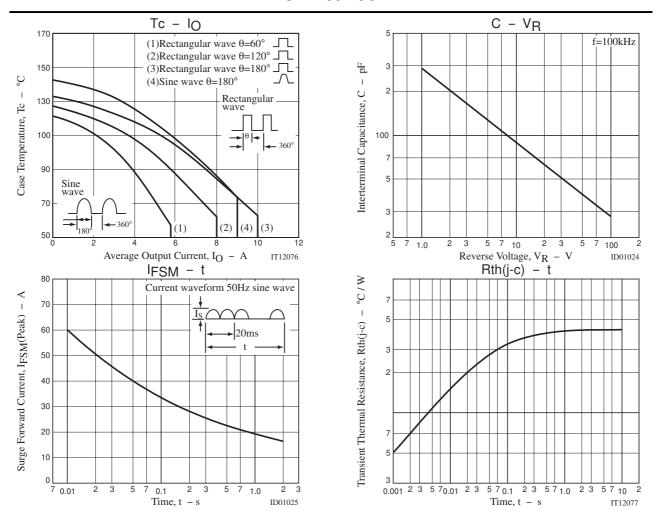
Electrical Connection







SBT100-10G



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