

SANYO Semiconductors DATA SHEET

An ON Semiconductor Company

SBT350-04L — Schottky Barrier Diode (Twin Type · Cathode Common) 40V, 35A Rectifier

Applications

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

Features

- Guaranteed up to Tj=150°C.
- Low forward voltage (VF max=0.55V).
- Fast reverse recovery time.
- Low switching noise.
- High reliability due to highly reliable planar structure.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		40	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		44	V
Average Output Current	IO	50Hz resistive load, Sine wave Tc=118°C	35	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	200	А
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	VR	IR=5mA, Tj=25°C*	40			V
Forward Voltage	VF	IF=15A, Tj=25°C*			0.55	V
Reverse Current	IR	V _R =20V, Tj=25°C*			0.5	mA
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		800		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			1.2	°C / W

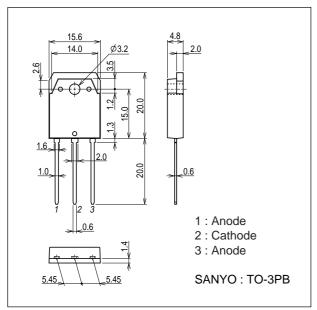
Note) * : Value per element

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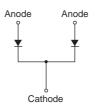
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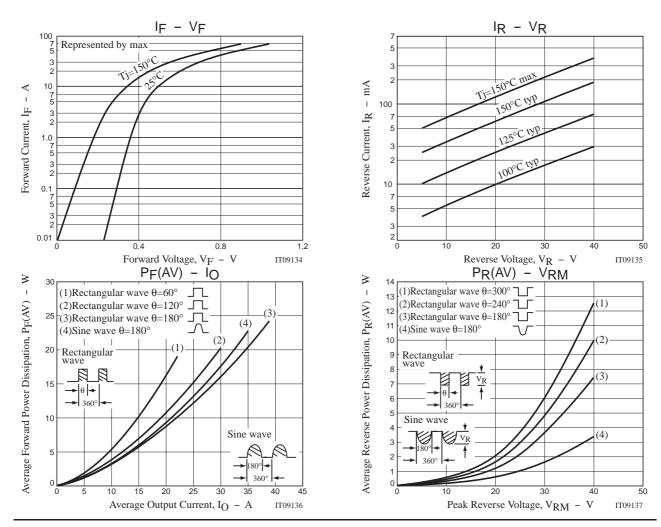
Package Dimensions

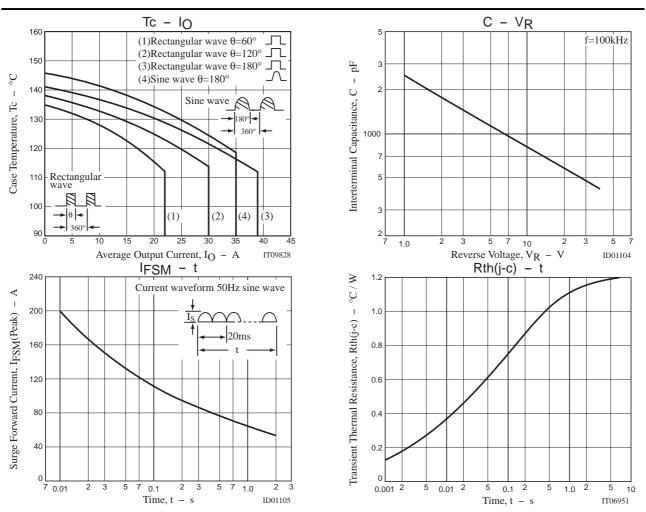
unit : mm 7503-002



Electrical Connection







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