

SANYO Semiconductors DATA SHEET

SBT250-04L — Schottky Barrier Diode (Twin Type · Cathode Common) 40V, 25A 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	lo	50Hz resistive load, Sine wave Tc=121°C	25	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	120	Α
Junction Temperature	Tj		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

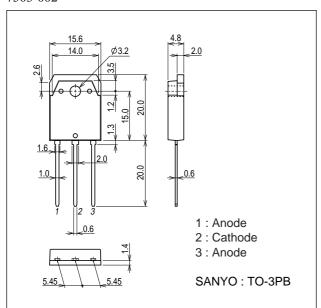
Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Reverse Voltage	VR	I _R =3mA, Tj=25°C*	40			V
Forward Voltage	VF	I _F =10A, Tj=25°C*			0.55	V
Reverse Current	IR	V _R =20V, Tj=25°C*			0.3	mA
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		510		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			1.6	°C/W

Note) *: Value per element

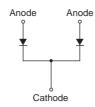
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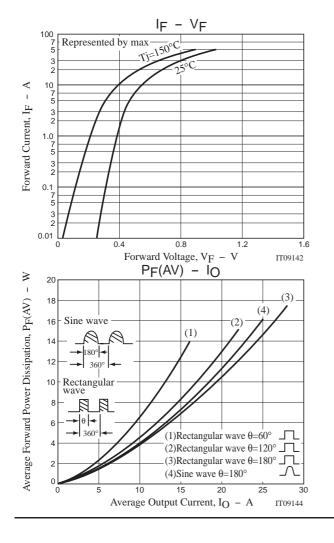
Package Dimensions

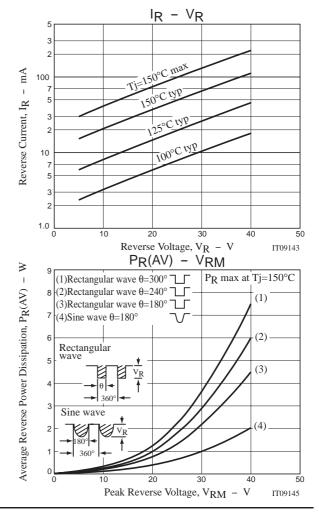
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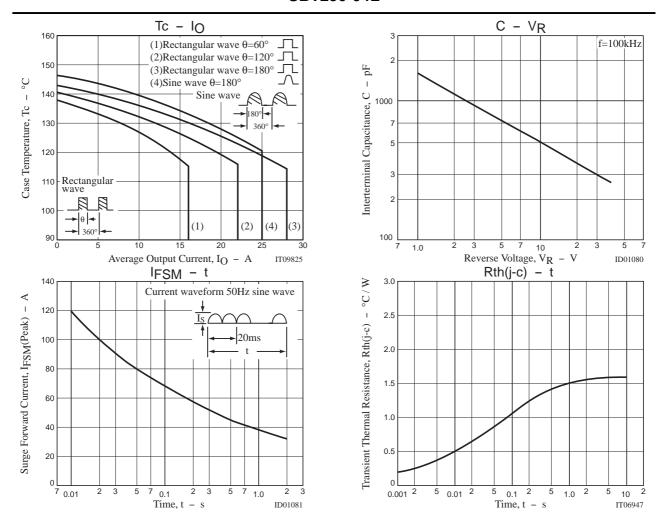
Electrical Connection







SBT250-04L



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