

SANYO Semiconductors DATA SHEET

SBT150-04Y — Schottky Barrier Diode (Twin Type · Cathode Common) 40V, 15A Rectifier

Applications

• High frequency rectification (switching regulators, converters and 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.
- Surface mount type device reducing the assembling time and facilitating compact and high-density assembly of SBT150-04Y-applied equipment.

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=113°C	15	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	100	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	٧R	I _R =2mA, Tj=25°C*	40			V
Forward Voltage	٧F	I _F =6A, Tj=25°C*			0.55	V
Reverse Current	IR	V _R =20V, Tj=25°C*			0.2	mA
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		320		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			3.0	°C/W

Note) * : Value per element

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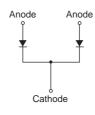
Package Dimensions

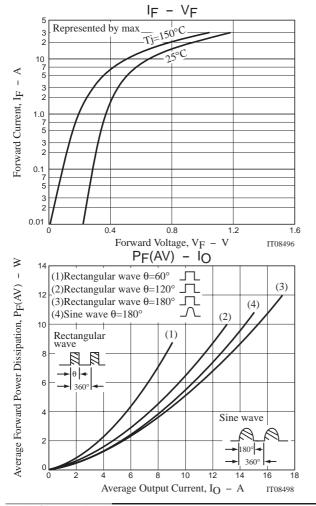
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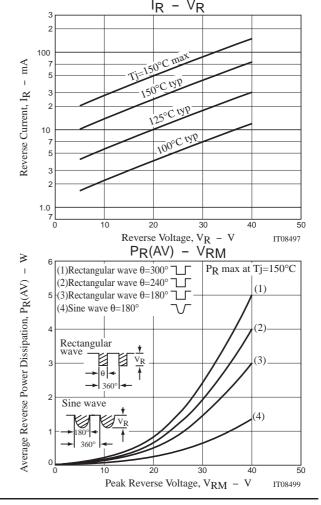
10.2 0 to 0.3 2.55 0.4 1: Anode 2: Cathode 3: Anode SANYO: SMP-FD

Electrical Connection

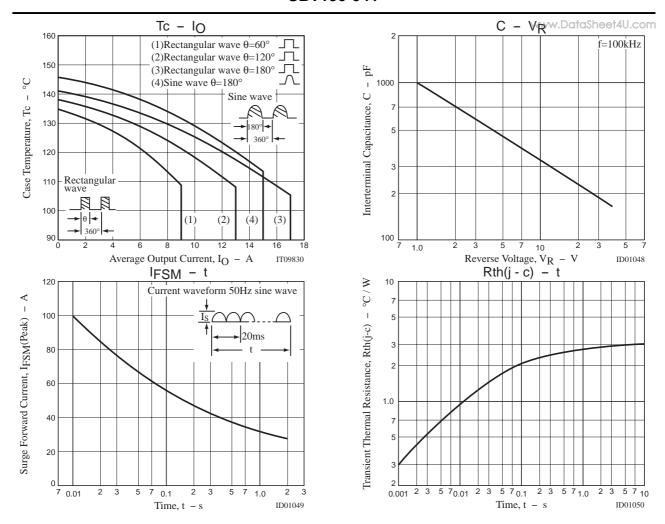
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SBT150-04Y



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