

SANYO Semiconductors DATA SHEET

SBT80-04J

Schottky Barrier Diode (Twin Type · Cathode Common) 40V, 8A Rectifier

Applications

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

Features

- Guaranteed up to $Tj=150^{\circ}C$.
- Low forward voltage (VF max=0.55V).
- Short reverse recovery time.
- Low switching noise.
- High reliability due to highly reliable planar structure.
- Attachment workability is good by Mica-less package.

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=117°C	8	A
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	80	A
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	I _R =1mA, Tj=25°C*	40			V
Forward Voltage	VF	IF=3.0A, Tj=25°C*			0.55	V
Reverse Current	IR	V _R =20V, Tj=25°C*			0.1	mA
Interterminal Capacitance	С	VR=10V, Tj=25°C*		160		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			5.0	°C / W

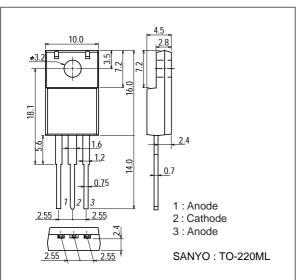
Note) * : Value per element

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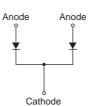
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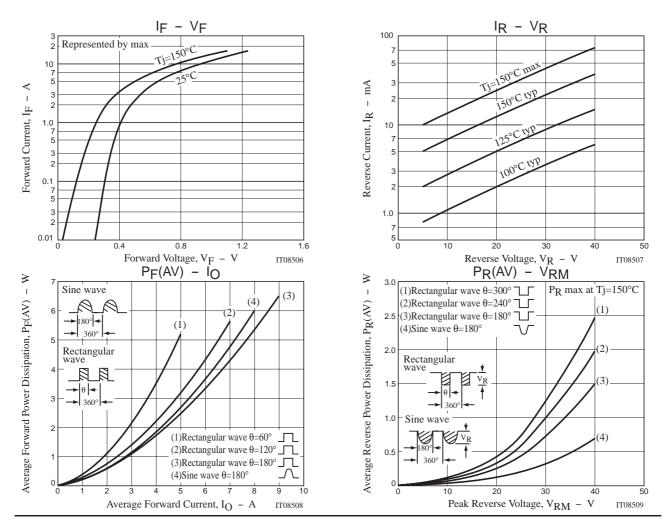
Package Dimensions

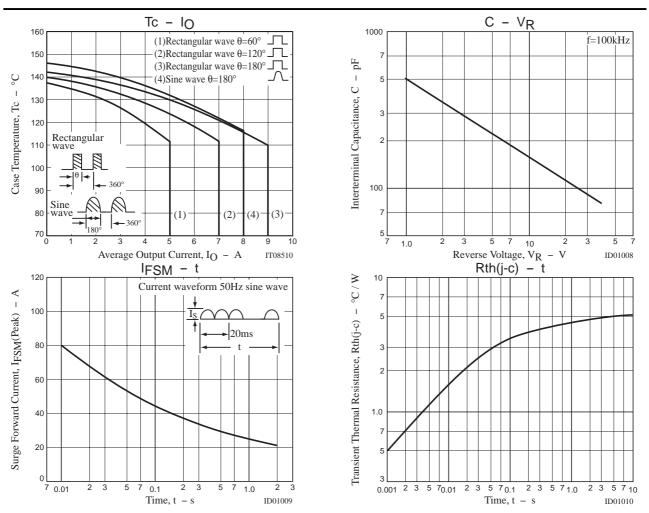




Electrical Connection







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