

# 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°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	lo	50Hz resistive load, Sine wave Tc=117°C	8	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	80	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			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I <sub>R</sub> =1mA, Tj=25°C*	40			V
Forward Voltage	٧F	I <sub>F</sub> =3.0A, Tj=25°C*			0.55	V
Reverse Current	IR	V <sub>R</sub> =20V, Tj=25°C*			0.1	mA

Note) \* : Value per element

Continued on next page.

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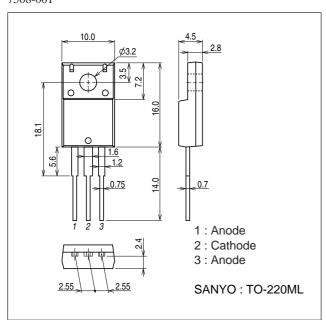
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Interterminal Capacitance	С	V <sub>R</sub> =10V, Tj=25°C*		160		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			5.0	°C/W

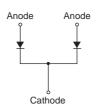
Note) \*: Value per element

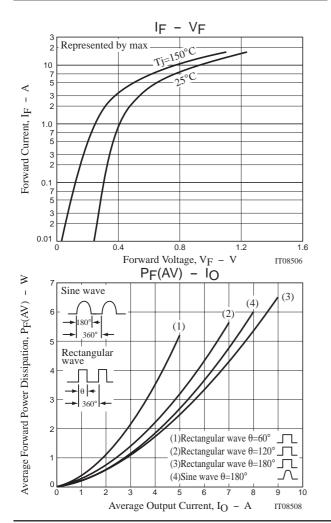
# **Package Dimensions**

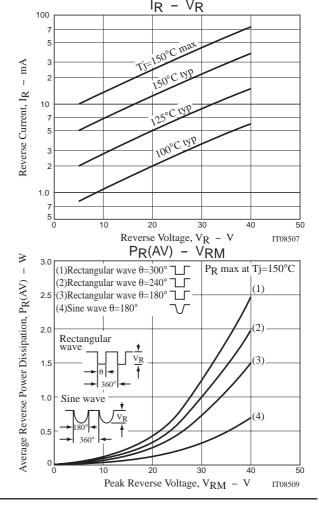
unit : mm (typ) 7508-001



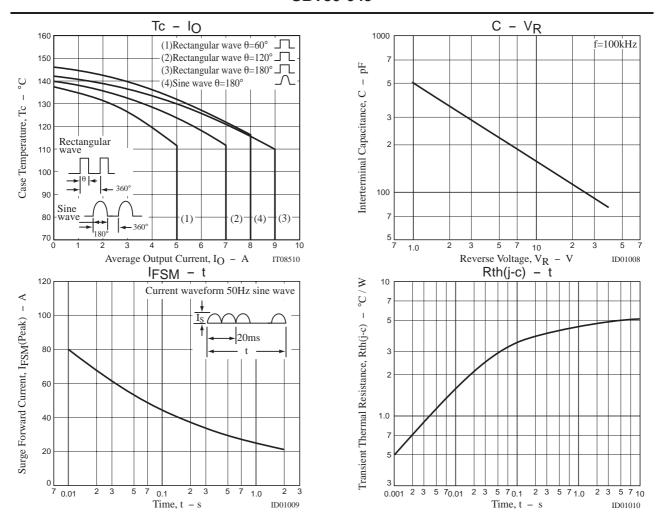
## **Electrical Connection**







# SBT80-04J



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