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ON Semiconductor SBT80-10Y-DL-E

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Distributor of ON Semiconductor: Excellent Integrated System Limited

Datasheet of SBT80-10Y-DL-E - DIODE ARRAY SCHOTTKY 100V SMPFD

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Ordering number : ENN7791



SANYO Semiconductors DATA SHEET

SBT80-10Y Schottky Barrier Diode (Twin Type · Cathode Common) 100V, 8A Rectifier

Applications

· High frequency rectification (switching regulators, converters and choppers).

Features

- Guaranteed up to Tj=150°C.
- Low forward voltage (VF max=0.80V).
- · 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 SBT80-10Y-applied equipment.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		100	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		105	V
Average Output Current	lo	50Hz resistive load, Sine wave Tc=95°C	8	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	60	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 =1mA, Tj=25°C*	100			V
Forward Voltage	VF	I _F =3A, Tj=25°C*			0.8	V
Reverse Current	IR	V _R =50V, Tj=25°C*			0.1	mA
Interterminal Capacitance	С	V _R =10V, Tj=25°C*		90		pF
Thermal Resistance	Rth(j-c)	Junction-Case : Smoothed DC			4.0	°C/W

Note) * : Value per element

- Any and all SANYO products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your SANYO representative nearest you before using any SANYO products described or contained herein in such applications.
- SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all SANYO products described or contained herein.

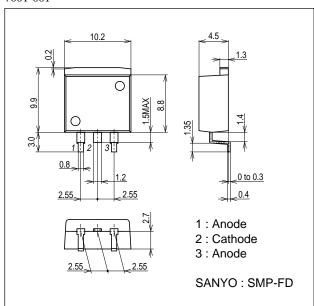
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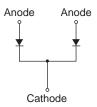
SBT80-10Y

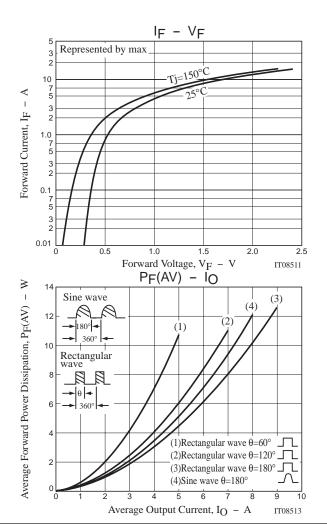
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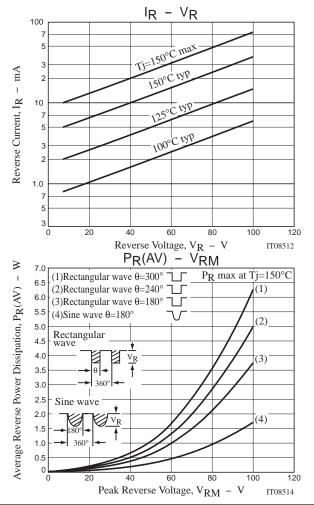
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Electrical Connection



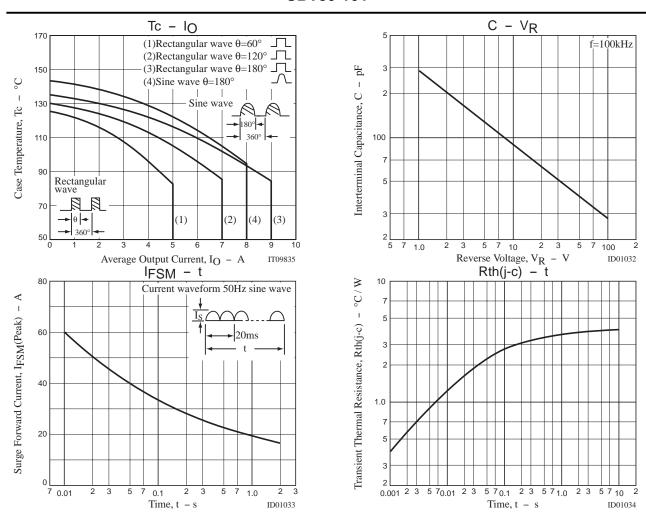




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SBT80-10Y



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