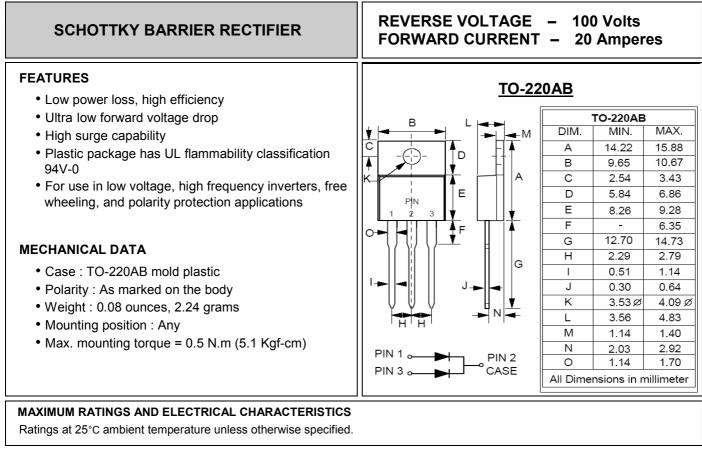
# LITEON SEMICONDUCTORS

### SBL20V100CT



PARAMETER	SYMBOL	SBL20V100CT	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	
Average Rectified Output Current @TC=135°C	I <sub>(AV)</sub>	20	А
Peak Forward Surge Current 8.3ms single @Tj=25°C half sine-wave	I <sub>FSM</sub>	180	А
Maximum Forward Voltage (Note 1) IF=10A@Tj=25°C IF=10A@Tj=125°C	V <sub>F</sub>	0.78 0.67	V
Maximum DC Reverse Current atTj=25°CRated DC Blocking VoltageTj=125°C	I <sub>R</sub>	0.1 10	mA
Typical Junction Capacitance per element (Note 2)	CJ	280	РF
Typical Thermal Resistance (Note 3)	R⊖ <sub>JC</sub>	2.8	°C/W
Typical Thermal Resistance (Note 3)	R⊖ <sub>JL</sub>	3.0	°C/W
Operating junction temperature range	TJ	-55 to +175	°C
Storage temperature range	T <sub>STG</sub>	-55 to +175	°C
Notes :	•	REV. 1, Mar-2011, K	THC97

Notes :

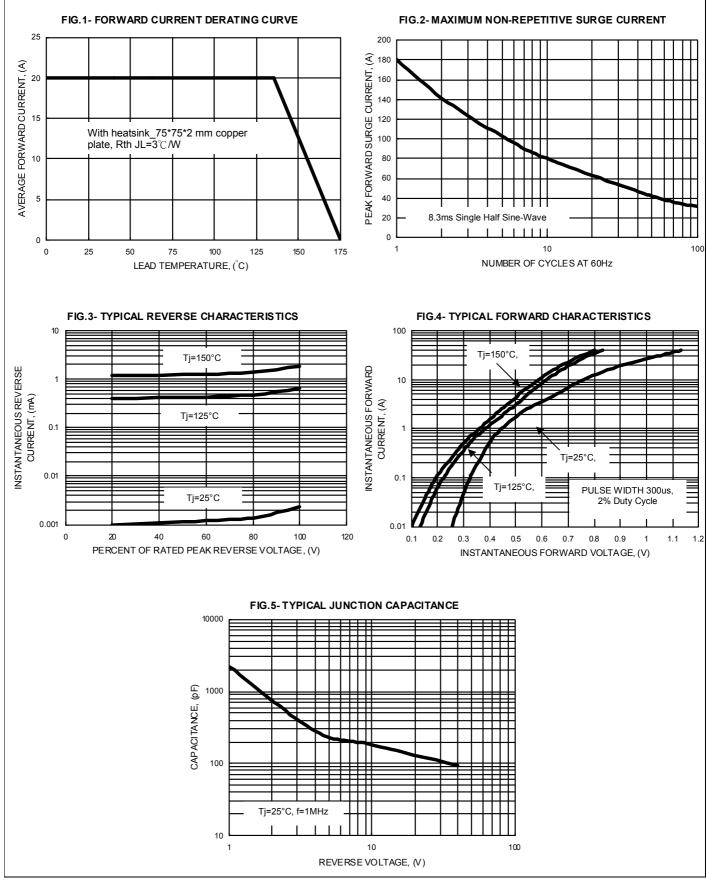
(1) 300us Pulse Width, 2% Duty Cycle.

(2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

(3) Thermal Resistance Junction to Case. Device mounted on 75 x 75 x 2 mm copper plate.

REV. 1, Mar-2011, KTHC97

## RATING AND CHARACTERISTIC CURVES SBL20V100CT



#### LITEON



#### **Important Notice and Disclaimer**

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.