

# Schottky Dual Diode

## **SBL25L25CT**

25V / 25A

# DATASHEET

from

[www.web-bcs.com](http://www.web-bcs.com)

OEM – General Semiconductor

Source: General Semiconductor Databook 1998

NEW PRODUCT      NEW PRODUCT      NEW PRODUCT

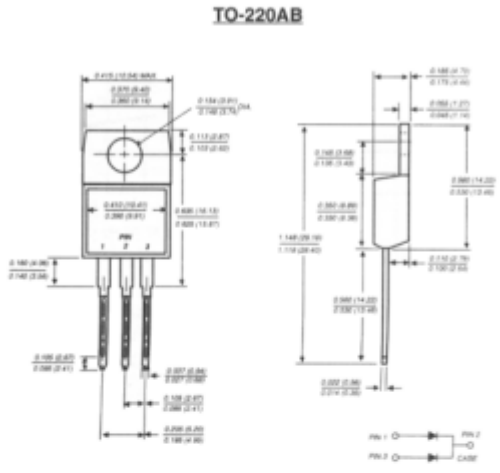
---

# SBL25L20CT THRU SBL25L30CT

## LOW V<sub>F</sub> SCHOTTKY RECTIFIER

**Reverse Voltage - 20 and 25 Volts    Forward Current - 25.0 Amperes**

---



Dimensions in inches and (millimeters)

- FEATURES**
- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
  - ◆ Metal silicon junction, majority carrier conduction
  - ◆ Low power loss, high efficiency
  - ◆ High current capability
  - ◆ Very low forward voltage drop
  - ◆ High surge capability
  - ◆ Guardring for overvoltage protection
  - ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
  - ◆ High temperature soldering guaranteed: 250°C/10 seconds, 0.25" (6.35mm) from case



**MECHANICAL DATA**

**Case:** JEDEC TO-220AB molded plastic body  
**Terminals:** Leads solderable per MIL-STD-750, Method 2026  
**Polarity:** As marked  
**Mounting Position:** Any  
**Mounting Torque:** 5in.-lbs. max.  
**Weight:** 0.08 ounce, 2.24 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	SBL25L20CT	SBL25L25CT	SBL25L30CT	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	25	30	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	17	21	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	20	25	30	Volts
Maximum average forward rectified current at T <sub>C</sub> =95°C	I <sub>F(AV)</sub>	25.0			Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	180.0			Amps
Maximum instantaneous forward voltage per leg at 12.5A (NOTE 1) T <sub>C</sub> =125°C T <sub>C</sub> =25°C	V <sub>F</sub>	0.39 0.49			Volts
Maximum instantaneous reverse current at rated DC blocking voltage per leg (NOTE 1) T <sub>C</sub> =25°C T <sub>C</sub> =100°C T <sub>C</sub> =125°C	I <sub>R</sub>	1.0 50.0 100.0			mA
Typical thermal resistance per leg (NOTE 2)	R <sub>θJC</sub>	1.5			°C/W
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-40 to +125			°C

**NOTES:**  
 (1) Pulse test: 300µs pulse width, 1% duty cycle  
 (2) Thermal resistance from junction to case per leg

**RATINGS AND CHARACTERISTIC CURVES SBL25L20CT THRU SBL25L30CT**

