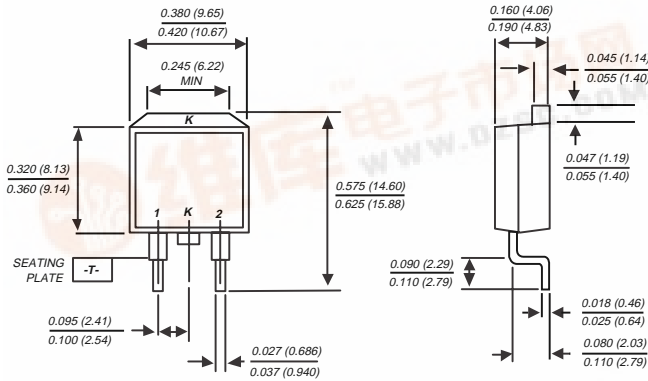


# SBLB1030 AND SBLB1040

## SCHOTTKY RECTIFIER

Reverse Voltage - 30 and 40 Volts Forward Current - 10.0 Amperes

### TO-263AB



Dimensions in inches and (millimeters)

### FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ High current capability, low forward voltage drop
- ◆ High surge capability
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ◆ Guardring for overvoltage protection
- ◆ High temperature soldering in accordance with CECC 802 / Reflow guaranteed



### MECHANICAL DATA

**Case:** JEDEC TO-263 molded plastic body

**Terminals:** Leads solderable per MIL-STD-750, Method 2026

**Polarity:** As marked

**Mounting Position:** Any

**Weight:** 0.08 ounces, 2.24 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	SBLB1030	SBLB1040	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	30	40	Volts
Maximum RMS voltage	V <sub>RMS</sub>	21	28	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	30	40	Volts
Maximum average forward rectified current at T <sub>C</sub> =110°C	I(AV)	10.0		Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	250.0		Amps
Maximum instantaneous forward voltage at 10A (NOTE 1)	V <sub>F</sub>	0.55		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	I <sub>R</sub>	T <sub>C</sub> =25°C 50.0	T <sub>C</sub> =100°C 1.0	mA
Typical thermal resistance (NOTE 2)	R <sub>θJC</sub>	2.0		°C/W
Operating 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 SBLB1030 AND SBLB1040

