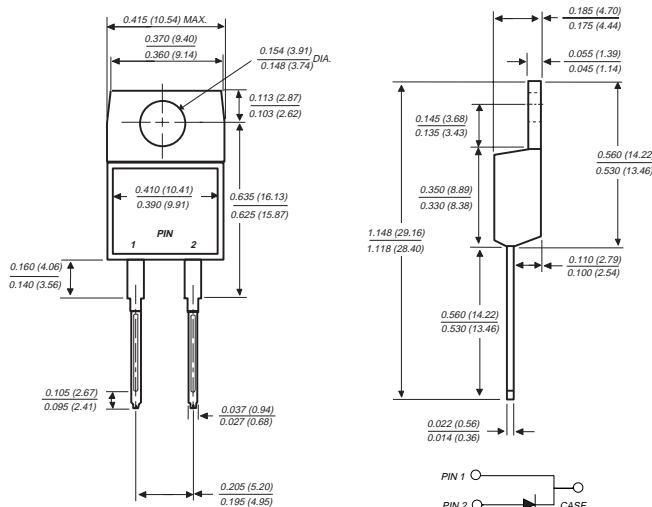


SBL1030 AND SBL1040

SCHOTTKY RECTIFIER

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

TO-220AC



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 guaranteed: 250°C/10 seconds, 0.25" (6.35mm) from case



MECHANICAL DATA

Case: JEDEC TO-220AC molded plastic body

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

Polarity: As marked

Mounting Position: Any

Mounting Torque: 5 in. - lbs. max.

Weight: 0.08 ounces, 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	SBL1030	SBL1040	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	30	40	Volts
Maximum RMS voltage	V _{RMS}	21	28	Volts
Maximum DC blocking voltage	V _{DC}	30	40	Volts
Maximum average forward rectified current at T _c =110°C	I _(AV)	10.0		Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250.0		Amps
Maximum instantaneous forward voltage at 10A (NOTE 1)	V _F	0.55		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	I _R	1.0 50.0		mA
Typical thermal resistance (NOTE 2)	R _{θJC}	2.0		°C/W
Operating and storage temperature range	T _{J,TSTG}	-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 SBL1030 AND SBL1040

