

Schottky Diode

SBLF1040

40V / 10A

DATASHEET

from

www.web-bcs.com

OEM – General Semiconductor

Source: General Semiconductor Databook 1998

NEW PRODUCT

NEW PRODUCT

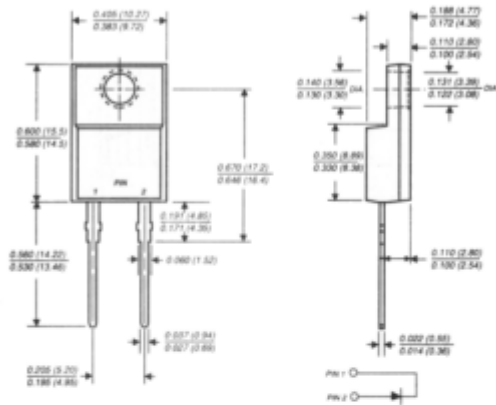
NEW PRODUCT

SBLF1030 AND SBLF1040

SCHOTTKY RECTIFIER

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

ITO-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 ITO-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	SBLF1030	SBLF1040	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	0.60		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	I _R	50.0		mA
Typical thermal resistance (NOTE 2)	R _{θJC}	4.0		°C/W
Operating and storage temperature range	T _J , T _{STG}	-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 SBLF1030 AND SBLF1040

