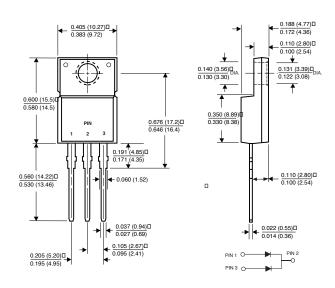
SBLF2030CT AND SBLF2040CT

SCHOTTKY ISOLATED PLASTIC RECTIFIER

Reverse Voltage - 30 and 40 Volts For

Forward Current - 20.0 Amperes

ITO-220AB



Dimensions in inches and (millimeters)

FEATURES

- Isolated 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
- ◆ Dual rectifier construction, positive center-tap
- ◆ Guardring for overvoltage protection
- ♦ High temperature soldering guaranteed: 250°C/10 seconds, 0.16" (4.04mm) from case

MECHANICAL DATA

Case: JEDEC ITO-220AB fully overmolded plastic body

Terminals: Leads solderable per MIL-STD-750,

Method 2026

Polarity: As marked Mounting Position: Any

Weight: 0.08 ounce, 2.24 grams Mounting Torque: 5 in. - lbs.max.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	SYMBOLS	SBLF2030CT	SBLF2040CT	UNITS
Maximum repetitive peak reverse voltage	VRRM	30	40	Volts
Maximum RMS voltage	V _{RMS}	21	28	Volts
Maximum DC blocking voltage	VDC	30	40	Volts
Maximum average forward rectified current at T _C =105°C	I(AV)	20.0		Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	175.0		Amps
Peak repetitive reverse surge current (NOTE 3)	IRRM	1.0		Amp
Maximum instantaneous forward voltage per leg at 10.0A (NOTE 1)	VF	0.55		Volts
Maximum instantaneous current at rated DC blocking voltage per leg (NOTE 1) Tc=100°C	IR	1.0 50.0		mA
Typical thermal resistance per leg (NOTE 2)	Rejc	4.0		°C/W
Operating junction and storage temperature range	TJ, TSTG	-40 to +125		°C
RMS Isolation voltage from terminals to heatsink with RH ≤ 30%	VISOL	4500 (NOTE 4) 3500 (NOTE 5) 1500 (NOTE 6)		Volts

NOTES

- (1) Pulse test: 300µs pulse width, 1% duty cyle
- (2) Thermal resistance from junction to case per leg
- (3) 2.0μs pulse width, f=1.0 KHz
- (4) Clip mounting (on case), where lead does not overlap heatsink with 0.110" offset.
- (5) Clip mounting (on case), where leads do overlap heatsink.
- (6) Screw mounting with 4-40 screw, where washer diameter is ≤ 4.9 mm (0.19").



RATINGS AND CHARACTERISTIC CURVES SBLF2030CT AND SBLF2040CT

