

Schottky Dual Diode

SBLF1640CT

40V / 16A

DATASHEET

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OEM – General Semiconductor

Source: General Semiconductor Databook 1998

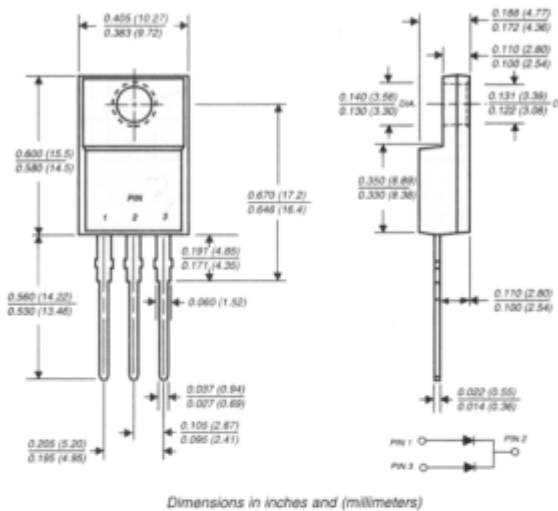
NEW PRODUCT NEW PRODUCT NEW PRODUCT

SBLF1630CT AND SBLF1640CT

SCHOTTKY RECTIFIER

Reverse Voltage - 30 and 40 Volts Forward Current - 16.0 Amperes

ITO-220AB



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
- ◆ Epitaxial construction
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ◆ High temperature soldering in accordance to CECC802 / Reflow guaranteed



MECHANICAL DATA

Case: JEDEC ITO-220AB molded plastic body

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

Polarity: As marked

Weight: 0.08 ounce, 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	SBLF1630CT	SBLF1640CT	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 =95°C	I <sub(av)< sub=""></sub(av)<>	16.0		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 per leg at 8.0A (NOTE 1)	V _F	0.55		Volts
Maximum instantaneous reverse current at rated DC blocking voltage per leg (NOTE 1)	I _R	0.5 50.0		mA
Typical thermal resistance per leg (NOTE 2)	R _{θJC}	4.0		°C/W
Operating junction 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 SBLF1630CT AND SBLF1640CT

