

Schottky Dual Diode

SBL2040CT

40V / 20A

DATASHEET

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OEM – General Semiconductor

Source: General Semiconductor Databook 1998

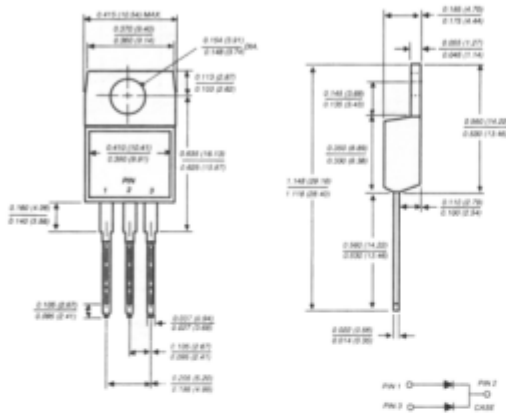
NEW PRODUCT NEW PRODUCT NEW PRODUCT

SBL2030CT AND SBL2040CT

SCHOTTKY RECTIFIER

Reverse Voltage - 30 and 40 Volts Forward Current - 20.0 Amperes

TO-220AB



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
- ◆ Dual rectifier construction, positive center-tap
- ◆ Guardring for overvoltage protection
- ◆ High temperature soldering guaranteed: 250°C/10 seconds, 0.17" (4.3mm) from case



MECHANICAL DATA

Case: JEDEC TO-220AB molded plastic
Terminals: Leads solderable per MIL-STD-750, Method 2026
Polarity: As marked
Mounting Position: Any
Mounting Torque: 5 in. - lbs.max.
Weight: 0.08 ounce, 2.24 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	SBL2030CT	SBL2040CT	UNITS
Maximum repetitive peak reverse voltage	VRRM	30	40	Volts
Maximum RMS voltage	VRMS	21	28	Volts
Maximum DC blocking voltage	VDC	30	40	Volts
Maximum average forward rectified current at T _C =105°C	I _{F(AV)}	20.0		Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	175.0		Amps
Peak repetitive reverse surge current (NOTE 3)	I _{RRM}	1.0		Amp
Maximum instantaneous forward voltage per leg at 10.0A (NOTE 1)	V _F	0.55		Volts
Maximum instantaneous current at rated DC blocking voltage per leg (NOTE 1) T _C =25°C T _C =100°C	I _R	1.0 50.0		mA
Typical thermal resistance per leg (NOTE 2)	R _{θJC}	2.0		°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
- (3) 2.0µs pulse width, f=1.0 KHz

RATINGS AND CHARACTERISTIC CURVES SBL2030CT AND SBL2040CT

