

SBL3030CT thru 3045CT

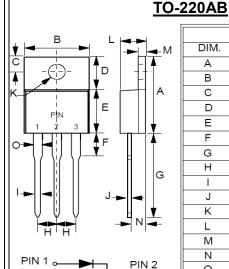
SCHOTTKY BARRIER RECTIFIERS

FEATURES

- Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capability
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: TO-220AB molded plastic
- Polarity : As marked on the body
- Weight: 0.08 ounces, 2.24 grams
- Mounting position: Any
- Max. mounting torque=0.5 N.m(5.1 Kgf.cm)

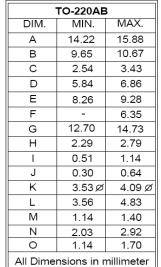


CASE

PIN 3

REVERSE VOLTAGE

FORWARD CURRENT



- 30 to 45 Volts

- 30 Amperes

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SBL3030CT	SBL3040CT	SBL3045CT	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	40	45	V
Maximum RMS Voltage	V _{RMS}	21	28	31	V
Maximum DC Blocking Voltage	V _{DC}	30	40	45	V
Average Rectified Output Current @TC=95°C	I _F	30			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	250			A
Maximum Forward Voltage (Note 1) IF=15A@ Tj=25°C	V _F	0.55			V
Maximum DC Reverse Current at Rated DC Tj=25°C Blocking Voltage Tj=100°C	IR	0.5 50			mA
Typical Junction Capacitance per element (Note 2)	CJ	450			РF
Typical thermal resistance Junction to Case (Note 3)	R _{eJC}	1.8			°C/W
Operating junction temperature range	TJ	-55 to +125			°C
Storage temperature range	T _{STG}	-55 to +150			°C

Note :

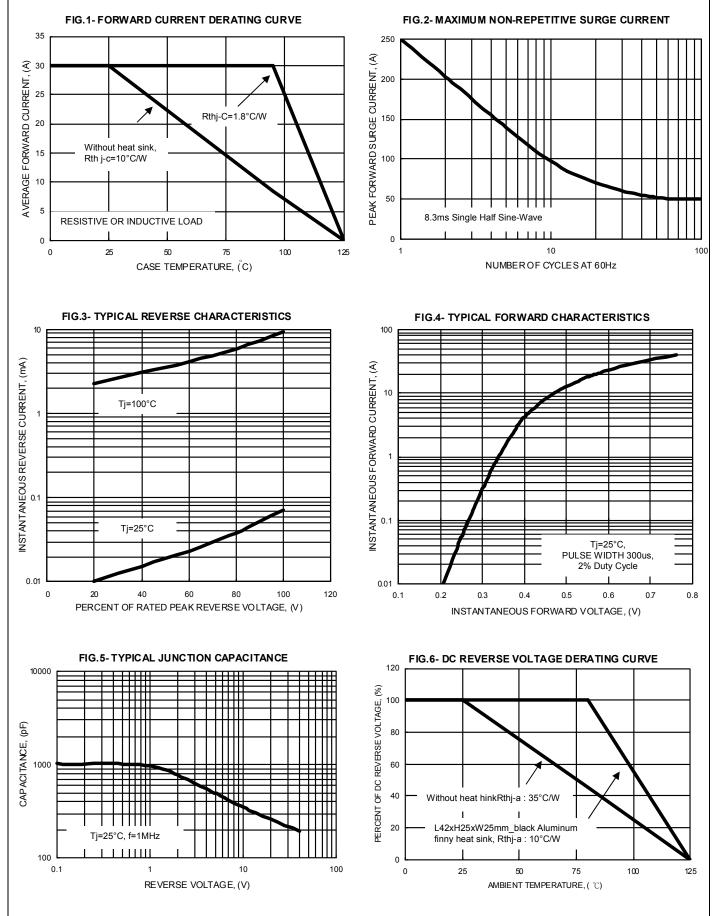
REV.3, Apr-2011, KTHC62

(1) 300us Pulse Width, 2% Duty Cycle.

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 V_{DC} .

(3) Thermal Resistance Junction to Case, device mounted on L200xW200xH2mm_copper heat sink.

RATING AND CHARACTERISTIC CURVES SBL3030CT thru SBL3045CT





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