



LITE-ON SEMICONDUCTOR

SBL20V60CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 60 Volts FORWARD CURRENT - 20 Amperes

TO-220AB

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 capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)

MECHANICAL DATA

Package: 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)

TO-220AB				
DIM.	MIN. MAX.			
A	14.22	15.88		
В	9.65	10.67		
С	2.54	3.43		
D	5.84	6.86		
E	8.26	9.28		
F	•	6.35		
G	12.70	14.73		
Н	2.29	2.79		
_	0.51	1.14		
Ì	0.30	0.64		
K	3.53 Ø	4.09 Ø		
L	3.56	4.83		
M	1.14	1.40		
N	2.03	2.92		
All Dimensions in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

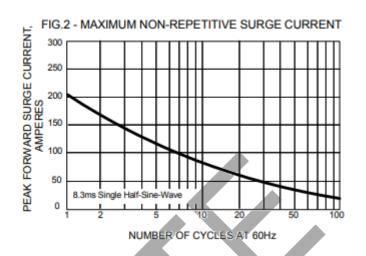
CHARACTERISTICS	SYMBOL	SBL20V60CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	60	V
Maximum RMS Voltage	VRMS	42	V
Maximum DC Blocking Voltage	VDC	60	V
Maximum Average Forward Rectified Current (See Fig.1) @TC=125°C	I _(AV)	20	А
Peak Forward Surge Current 8.3ms single half sine-wave	I _{FSM}	200	А
Maximum Forward Voltage @Tj=25°C at 10A DC (Note 3) @Tj=125°C	VF	0.60 0.55	V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	IR	0.1 20	mA
Typical Junction Capacitance per element (Note 4)	CJ	430	рF
Typical Thermal Resistance (Note 5)	R⊖JC	2.0	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Tstg	-55 to +150	°C

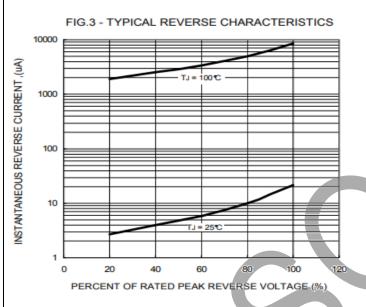
Notes:

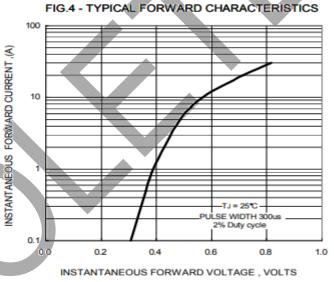
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. 300us Pulse Width, 2% Duty Cycle.
- 4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 5. Device mounted on 75mm x 75mm x 1.6mm Cu plate.

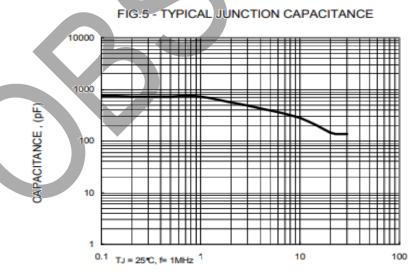
SBL20V60CT

FIG.1 - FORWARD CURRENT DERATING CURVE 15 16 RESISTIVE OR INDUCTIVE LOAD 0 25 50 75 100 125 150 CASE TEMPERATURE, ©









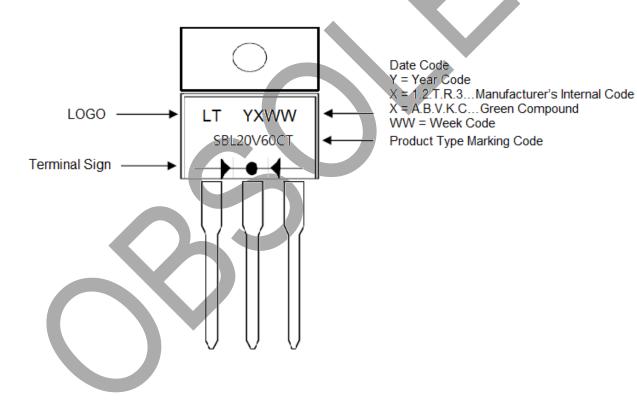
REVERSE VOLTAGE, VOLTS



Ordering Information:

Part Number	Dookogo	Packing		
Part Number	Package	Qty.	Carrier	
SBL20V60CT	TO-220AB	50pcs	Tube	

Marking Information:





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