



A Product Line of

LITE-ON SEMICONDUCTOR

SB550-SB560(LS)

SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE – 50 to 60 Volts FORWARD CURRENT – 5.0 Amperes			
FEATURES	DO-201AD			
 Metal-Semiconductor junction with guard ring 	<u>DO-ZUTAD</u>			
Epitaxial construction				
Low forward voltage drop	АВА			
High current capability				
 The plastic material carries UL recognition 94V-0 				
 For use in low voltage, high frequency inverters, 				
free wheeling, and polarity protection application	1 ⁰			
ESD Capability:				
Machine Model, C (> 400 V)				
Human Body Model, 3B (> 8 kV)				
• IEC 61000-4-2, level 4 (ESD). > 15KV (air)	DŎ-201AD			
Lead-Free Finish; RoHS Compliant (Notes 1 & 2)	Dim, Min. Max			
Halogen and Antimony Free. "Green" Device (Note 3)	A 25.4 -			
MECHANICAL DATA	B 7.30 9.50			
Package: JEDEC DO-201AD molded plastic	C 1.20 1.30			
Polarity: Color band denotes cathode				
• Weight: 1.1 grams	All Dimensions in millimeter			
Mounting position: Any				

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

CHARACTERISTICS	SYMBOL	SB550	SB560	UNIT
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	60	V
Maximum RMS Voltage	Vrms	35	42	V
Maximum DC Blocking Voltage	VDC	50	60	V
Maximum Average Forward Rectified Current @Tc=115 $^{\circ}$ C	IAV	5.0		А
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	IFSM	150		А
Peak Repetitive Reverse Current tp=2us, square F=1KHz @Tj=25°C	IRRM	1.0		
Maximum Forward Voltage at 5.0A DC	VF	0.67		
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	lr	0.2 20	0.1 20	mA
Typical Thermal Resistance (Note 4)	R⊖jL R⊖jc	10 12		°C/W
Typical Junction Capacitance (Note 5)	Ст	350		pF
Operating Junction Temperature Range	Tj	-55 to +150		°C
Storage Temperature Range	Тѕтс	-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. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm

antimony compounds.

4. Thermal Resistance Junction to Lead and Case.

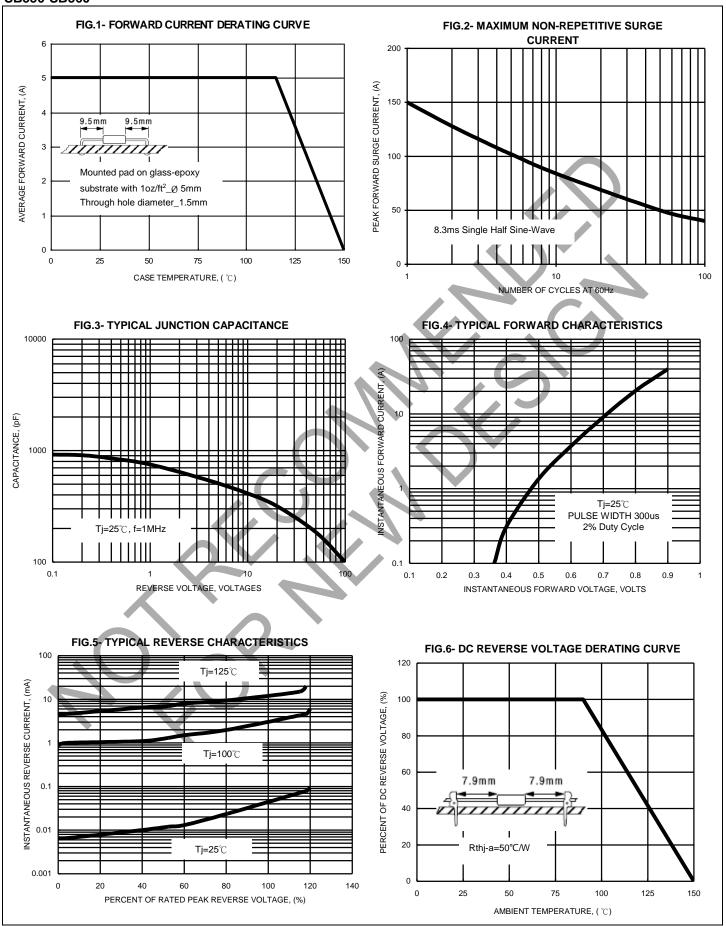
5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



RATING AND CHARACTERISTIC CURVES SB550-SB560

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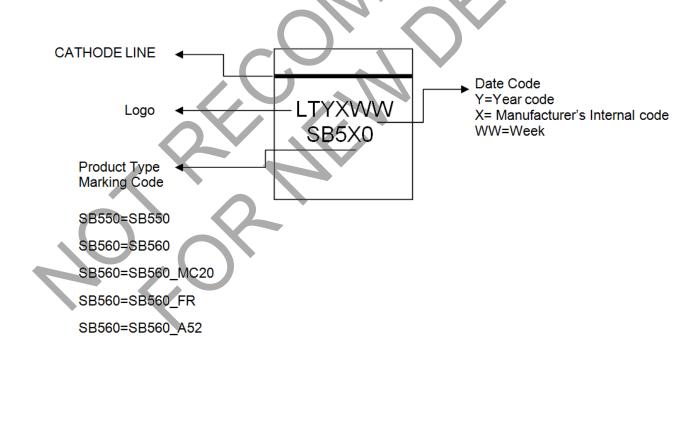


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Ordering Information:

Part Number	Dookogo	Packing		
Fait Nulliber	Package	Qty.	Carrier	
SB550	DO-201AD	1200	Tape & Reel	
SB560	DO-201AD	1200	Tape & Reel	
SB560_MC20	DO-201AD	500	Bulk Pack	
SB560_FR	DO-201AD	500	Bulk Pack	
SB560_A52	DO-201AD	1000	Ammo Pack	

Marking Information:





LITE-ON SEMICONDUCTOR

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