



A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR

B330B-B340B(LS)

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE – FORWARD CURRENT –

30 to 40 Volts 3.0 Amperes

FEATURES

- For surface mounted application
- Metal-semiconductor junction with guard ring
- Epitaxial construction
- Very low forward voltage drop
- · High current capability
- Qualified according to AEC-Q101 Rev_C
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection application
- IEC 61000-4-2, level 4 (ESD). > 15KV (air)
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Case: Molded plastic
- Case Material: Molding compound, UL Flammability classification 94V-0, "Halogen-free".
- Polarity: Color band denotes cathode
- Weight: 0.093 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	B330B	B340B	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	40	V
Maximum RMS Voltage	V _{RMS}	21	28	V
Maximum DC Blocking Voltage	VDC	30	40	V
Maximum Average Forward Rectified Current @TL=100°C	I _{AV}	3.0		А
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100		A
Maximum Forward Voltage at 3.0A DC	V _F	0.5		V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	I _R	0.15 15		mA
Typical Junction Capacitance (Note 4)	CT	210		pF
Typical Thermal Resistance (Note 5, 7)	R⊖ _{JL}	2	5	°C/W
Typical Thermal Resistance (Note 6, 7)	R⊖ _{JA}	95		°C/W
Operating Junction Temperature Range	Tj	-55 to +125		°C
Storage Temperature Range	T _{STG}	-55 to +150		°C

Note

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

REV-8, Oct-2021, KSHB16

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

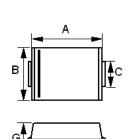
(<1500ppm total Br + Cl) and <1000ppm antimony compounds.

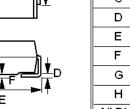
4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

5. Thermal Resistance Junction to Lead

6. Thermal Resistance Junction to Ambient

7. Unit mounted on glass epoxy substrate 1oz/ft2 7x5 mm copper pad.





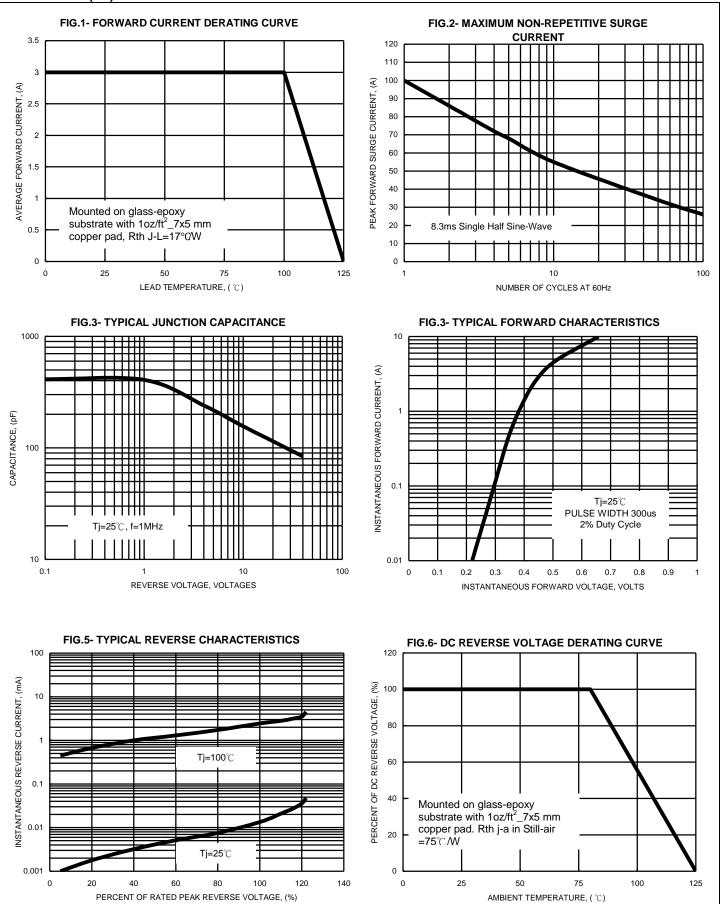
SMB

SMB					
DIM.	MIN.	MAX.			
А	4.06	4.57			
в	3.30	3.94			
С	1.96	2.21			
D	0.15	0.31			
Е	5.21	5.59			
F	0.05	0.20			
G	2.01	2.50			
Н	0.76	1.52			
	neione in I	nillimeter			

All Dimensions in millimeter



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Ordering Information:

		Packing		
Part Number	Package	Qty.	Carrier	
B330B-LS	SMB	3000	Tape & Reel	
B340B-LS	SMB	3000	Tape & Reel	
king Information:				
Logo	□ LTYXWW Date Code Y=Year code X= Manufacture			
Product Type	B3X0B	WW=We	ek	
Marking Code				
B330B=B330B-LS B340B=B340B-LS				



LITE-ON SEMICONDUCTOR

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