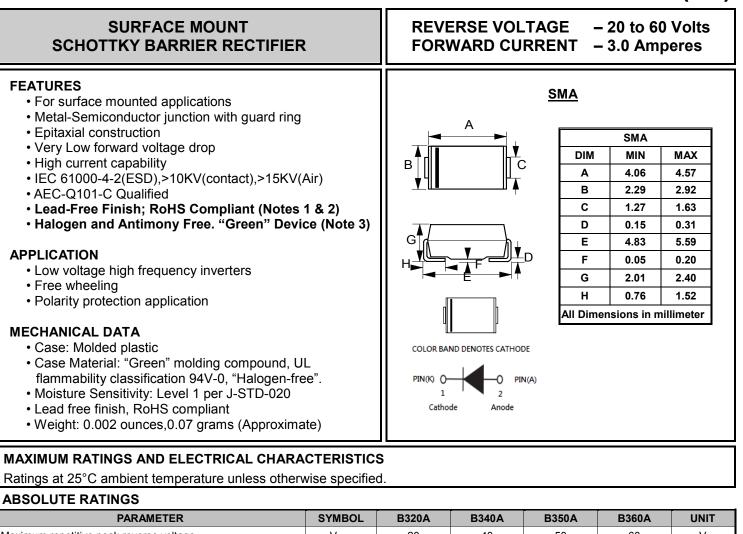




A Product Line of **Diodes Incorporated** 

#### **LITE-ON** SEMICONDUCTOR

# B320A-B360A(LS)



PARAMETER		SYMBOL	B320A	B340A	B350A	B360A	UNIT
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	20	40	50	60	V
Maximum DC blocking voltage		V <sub>DC</sub>	20	40	50	60	V
Maximum Average rectified output current	@T <sub>L</sub> =100°C	I <sub>(AV)</sub>	3		А		
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I <sub>FSM</sub>	100			А	
Operating junction temperature range		T <sub>J,</sub>	-55 to	o +125	-55 to	o +150	°C
Storage temperature range		T <sub>STG</sub>	-55 to +150		C		
STATIC ELECTRICAL CHARACTE	RISTICS						

#### PARAMETER **TEST CONDITIONS** SYMBOL MAX UNIT T<sub>J</sub>=25°C V Forward voltage (Note 4) I<sub>F</sub>=3.0A VF 0.5 0.7 Maximum DC Reverse current at Rated DC TJ=25°C 0.15 0.05 $I_R$ mΑ T.=100°C **Blocking Voltage** 15 5 Typical junction capacitance (Note 5) CJ 200 pF

#### THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note6, 7)	RthJ <sub>c</sub>	15	
	RthJ∟	22	°C/W
	RthJ <sub>A</sub>	100	
Note :		REV19, Oct-2021, KSHA05	

#### Note :

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

See https://www.diodes.com/guality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free. (2)

Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm (3)

antimony compounds.

300us pulse width, 2% duty cycle. (4)

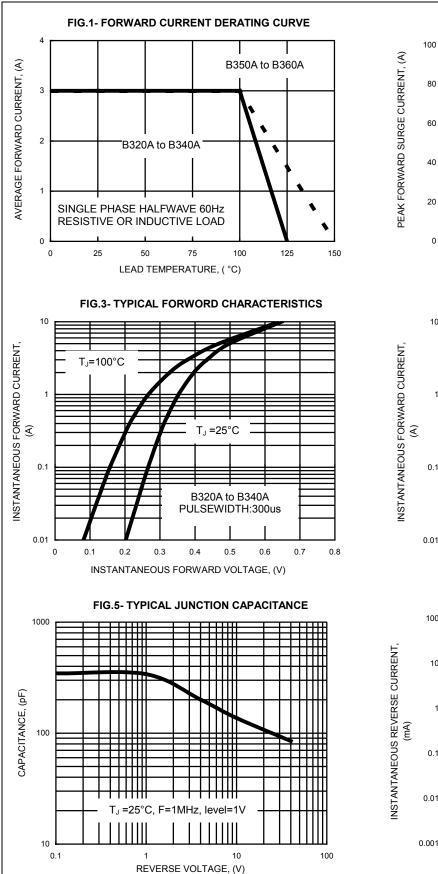
Measured at 1.0MHz and applied voltage of 4.0VDC. (5)

(6) Thermal Resistance Junction to Case, Lead and Ambient.

Unit mounted on 0.75t glass-epoxy substrate with 2x3mm copper pad. (7)

# RATING AND CHARACTERISTIC CURVES B320A-B360A(LS)

#### LITE-ON SEMICONDUCTOR



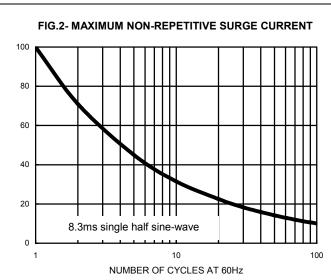


FIG.4- TYPICAL FORWORD CHARACTERISTICS

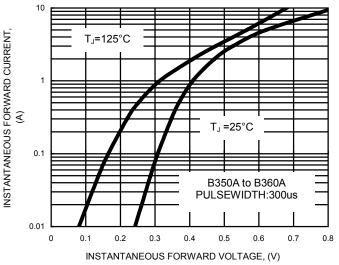
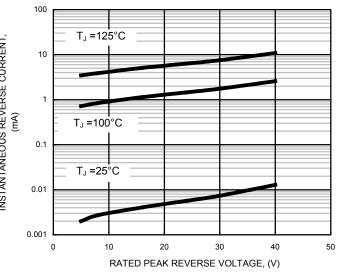


FIG.6- TYPICAL REVERSE CHARACTERISTICS



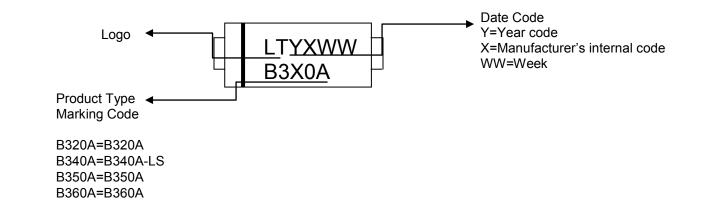


#### LITE-ON SEMICONDUCTOR

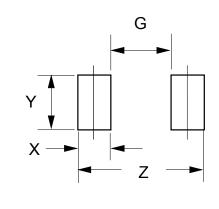
## **Ordering Information :**

Part Number	Case	Packaging
B320A	SMA	5000 / Tape & Reel
B340A-LS	SMA	5000 / Tape & Reel
B350A	SMA	5000 / Tape & Reel
B360A	SMA	5000 / Tape & Reel

## Marking Information :



### Suggested Pad Layout :



Dim	SMA
G	2.90
X	2.30
Y	2.40
Z	7.50
All Dimensions in Millimeters	



#### LITE-ON SEMICONDUCTOR

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