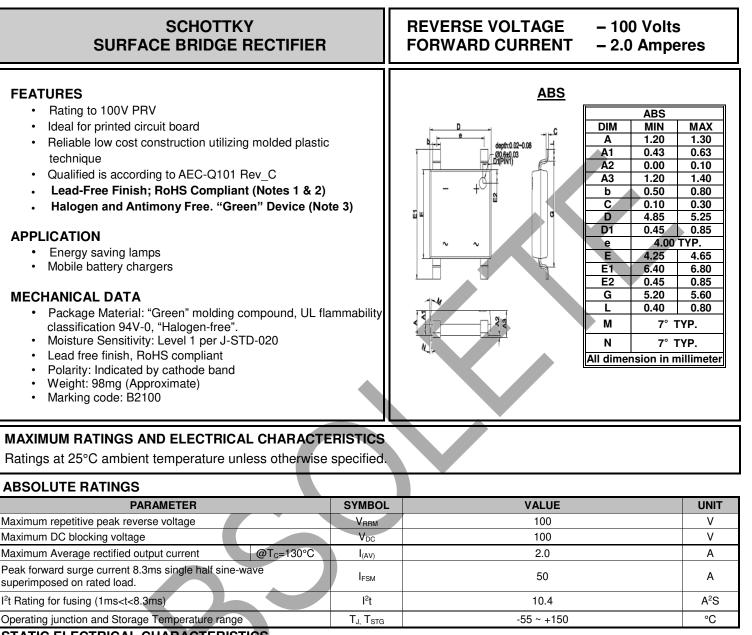


PART DISCONTINU

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# LITE-ON SEMICONDUCTOR **BABS2100**



STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	ТҮР	MAX	UNIT
Forward voltage (Note 4)	I <sub>F</sub> =2.0A	Tյ=25°C Tյ=125°C	V <sub>F</sub>	 0.68	0.85 0.70	v
Leakage current	V <sub>R</sub> =100V	T <sub>J</sub> =25°C T <sub>J</sub> =100°C	I <sub>R</sub>	 0.003	50 5	μA mA
Typical junction capacitance (Note 5)			CJ	73		pF

#### **THERMAL CHARACTERISTICS**

PARAMETER	SYMBOL	ТҮР	UNIT	
Typical thermal resistance (Notes 6, 7)	RthJ <sub>c</sub>	7	°C/W	
Typical thermal resistance (Notes 0, 7)	RthJ∟	14	0/11	

#### Note:

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.

300µs pulse width, 2% duty cycle.

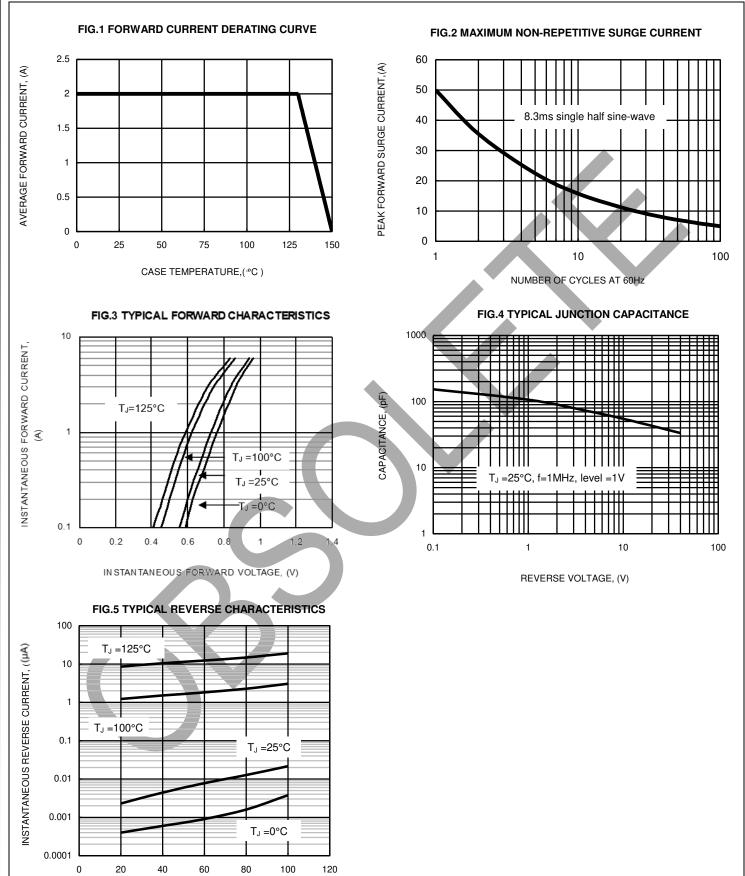
5. Measured at 1.0MHz and applied voltage of 4.0V DC.

6. Thermal resistance test performed in accordance with JESD-51.

7. The Unit mounted on glass-epoxy substrate with 1oz/ft<sup>2</sup>\_13 mm x 13 mm copper pad.

RATING AND CHARACTERISTIC CURVES BABS2100 A Product Line of Diodes Incorporated

### LITE-ON SEMICONDUCTOR



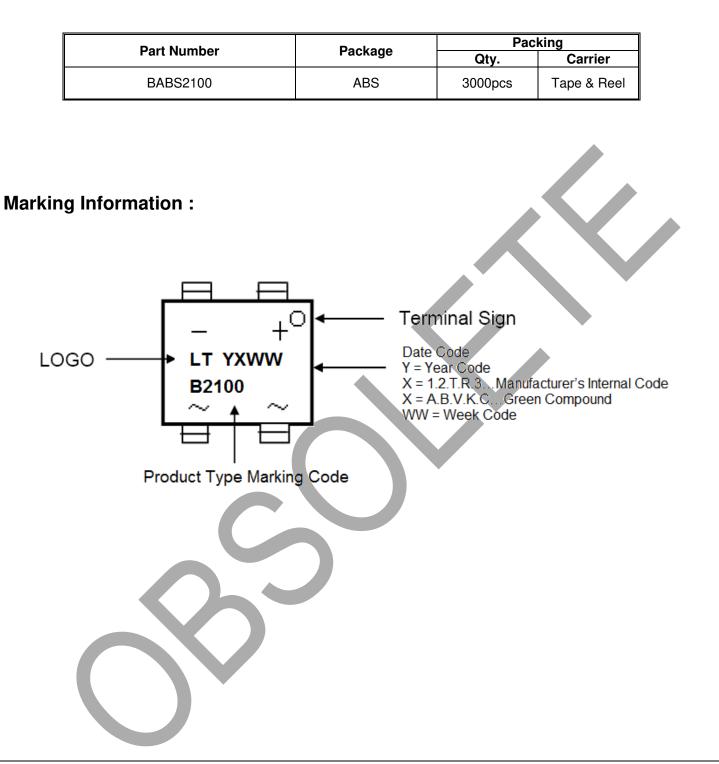
PART DISCONTINUED

OBSOLETE

RATED PEAK REVERSE VOLTAGE, (V)

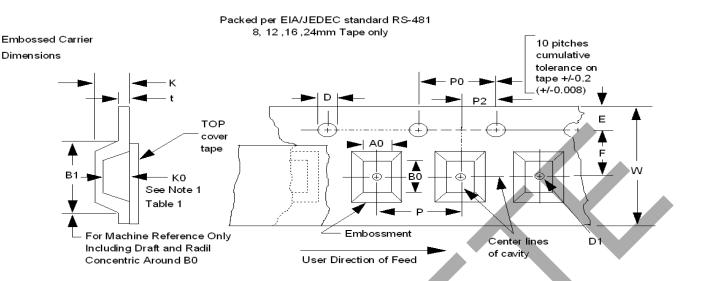


# Ordering Information :





# **Embossed Carrier Dimensions**

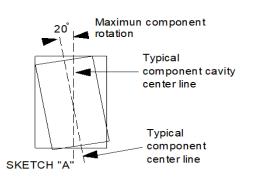


# EMBOSSED TYPE

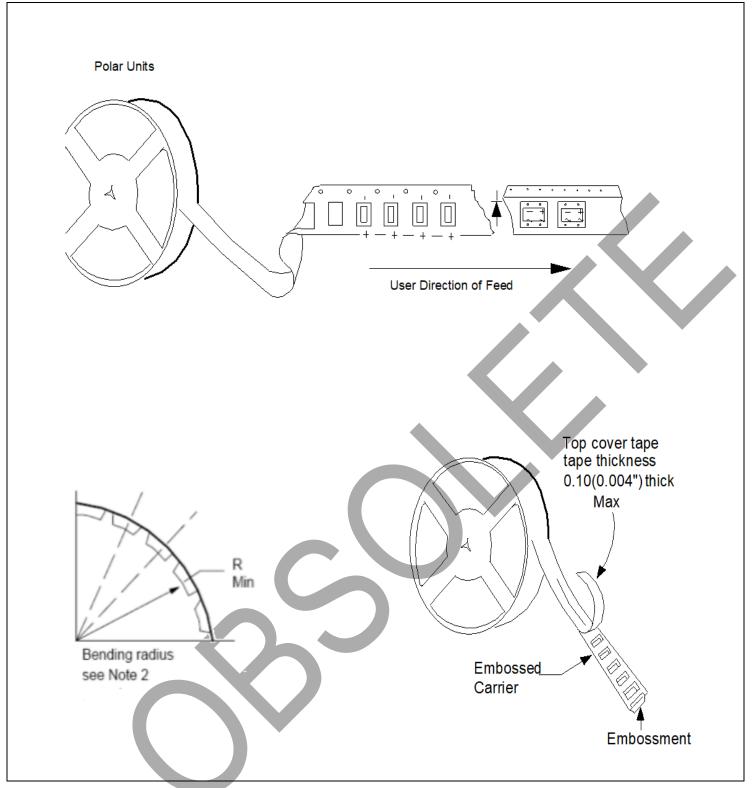
## ALL DIMENSION IN MILLIMETERS AND (INCHES)

12mm (0.059 +0.004 (0.069+/-0.004) (0.157+/-0.10 0.6 SEE NOTE 1 DIMENS	TAPE SI	IZE	D		E		0	t (MAX)	A0B0K0				
	12mm	12mm (0.059 +0.00							SEE NOTE 1	CONSTANT DIMENSION			
			F		F	72	R	w	Р	VARIABLE			
12mm     8.2 (0.323)     1.5 (0.59)     5.5+/-0.05 (2.17+/-0.0) 02)     4.5 (0.117)     2.0+/-0.05 (0.079+/-0.002)     30 (1.181)     12.0+/-0.30 (0.472+/-0.0)     8.0+/10 (0.315+/-0.0)     DIMENSION			(2.17+/-0	0 4.5				(0.472+/-0.0	(0.315+/-0.0	DIMENSIONS			

- Note 1: A0B0K0 are determined by component size. The clearance between the component and the cavity must bewithin 0.05 min. to 0.50 max, for 8 mm tape. 0.05 min. to 0.65 max. for 12mm tape. 0.15 min. to 0.90 max. for 16mm tape and 0.05 min. to 1.00 max. for 24 mm tape and larger .the component cannot rotate more than 20 within the determined cavity . see sketch "A" below.
  - 2: Tape and component shall pass around radius "R" without damage

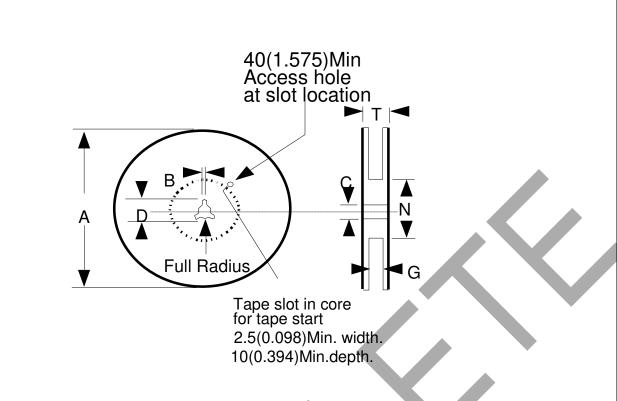








#### PACKAGING INFORMATION BABS2100



#### **REEL DIMENSIONS**

TAPE SIZE A MAX B MAX C D MIN N MIN G T MAX										
12mm     330 (13.0)     1.5 (0.06)     13.0+/-0.5 (0.512+/-0.020)     20.2 (0.80)     7.5 (2.952)     12.4+2.0/-0.0 (0.488+0.078/-0.0)     18.4 (0.724)										



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