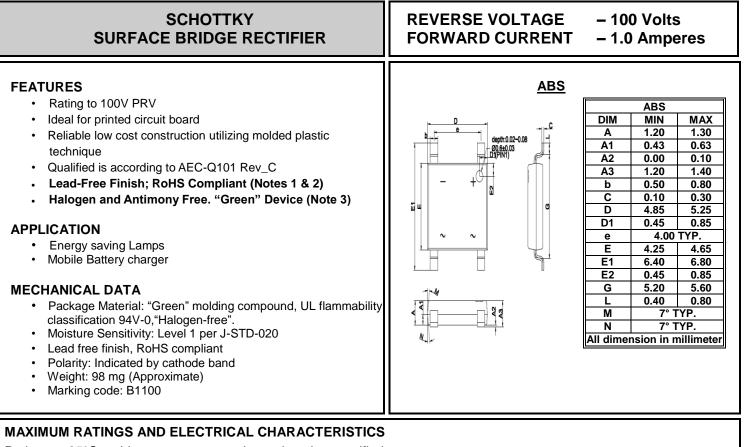




A Product Line of **Diodes Incorporated**

LITE-ON SEMICONDUCTOR **BABS1100**



Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATIN	IGS
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PARAMETER		SYMBOL	VALUE	UNIT	
Maximum repetitive peak reverse voltage		V _{RRM}	100	V	
Maximum DC blocking voltage		V _{DC}	100		
Maximum Average rectified output current	@T _c =120°C	I _(AV)	1.0	A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	30	A	
I ² t Rating for fusing (1ms <t<8.3ms)< td=""><td></td><td>l²t</td><td>3.7</td><td>A²S</td></t<8.3ms)<>		l ² t	3.7	A ² S	
Operating junction and Storage Temperature ran	ge	T _J , T _{STG}	-55 ~ +150	°C	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	PARAMETER TEST CONDITIONS		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note4)	I _F =1.0A	T」=25°C T」=125°C	V _F		0.85 0.60	V
Leakage current	V _R =100V	T _J =25°C T _J =100°C	I _R	 0.002	10 5	uA mA
Typical junction capacitance (Note 5)			CJ	55	5	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР		UNIT
Typical thermal resistance (Note 6,7)	RthJ _c	18		°C/W
Typical thermal resistance (Note 6,7)	RthJ∟	14		C/W
Note:	REV-2, Oct-2021, K	BHA01		

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.

4. 300us 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.

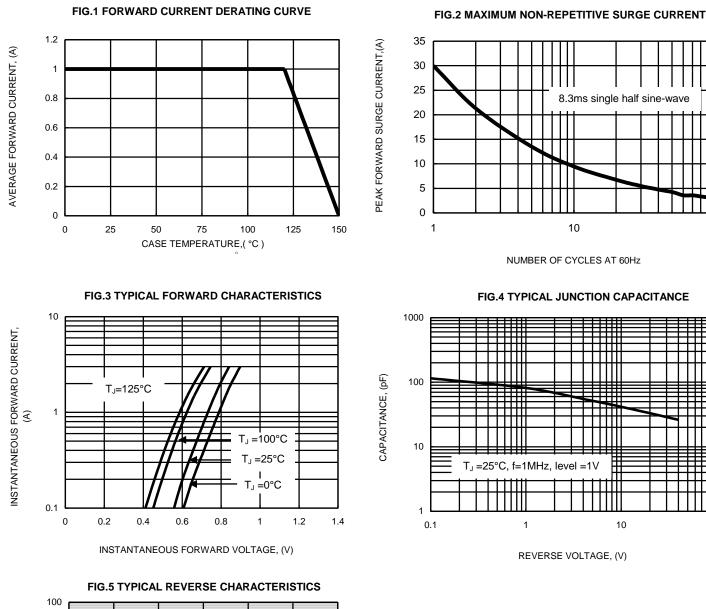
7. The unit mounted on glass-epoxy substrate with 1oz/ft2_2 mm x 2 mm copper pad.

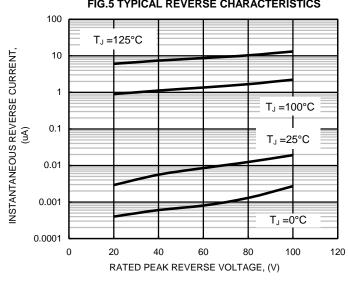
RATING AND CHARACTERISTIC CURVES BABS1100 A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR

100

100



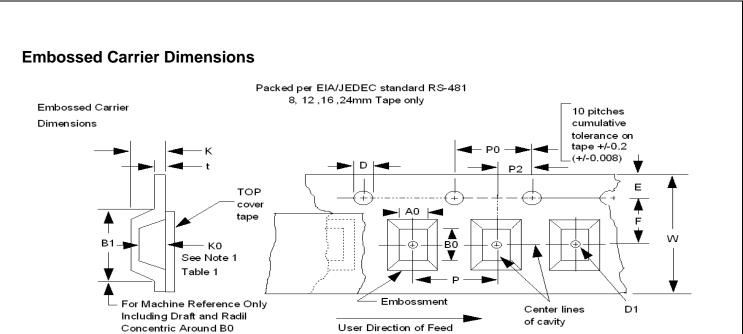




Ordering Information :

Part Number Package Package BABS1100 ABS 3000pcs Tape & Reel
O LT YXWW B1100 C A Code X = A.B.V.K.CManufacturer's Internal Code with Gree WW = Week Code Froduct Type Marking Code



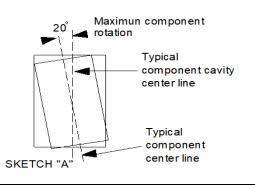


EMBOSSED TYPE

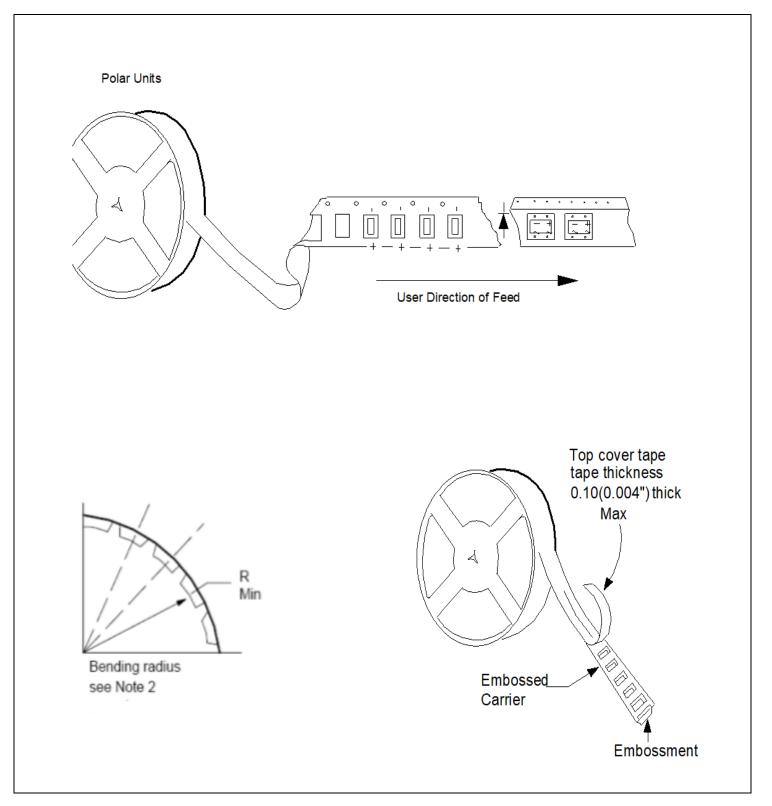
ALL DIMENSION IN MILLIMETERS AND (INCHES)

TAPE	SIZE	D		E		Р	0	t (MAX)	A0B0K0	
12m	m	1.55+0.1 (0.059 + -		1.75+/-0.10 (0.069+/-0.004)				0.6 (0.024)	SEE NOTE 1	CONSTANT DIMENSION
TAPE SIZE	B1 MAX	D1 MIN	F	K MAX	F	P2	R	W	Р	VARIABLE
12mm	8.2 (0.323)	1.5 (0.59)	5.5+/-0.05 (2.17+/-0.0 02)	15		/-0.05 ⊦/-0.002)	30 (1.181)	12.0+/-0.30 (0.472+/-0.0 12)		DIMENSIONS

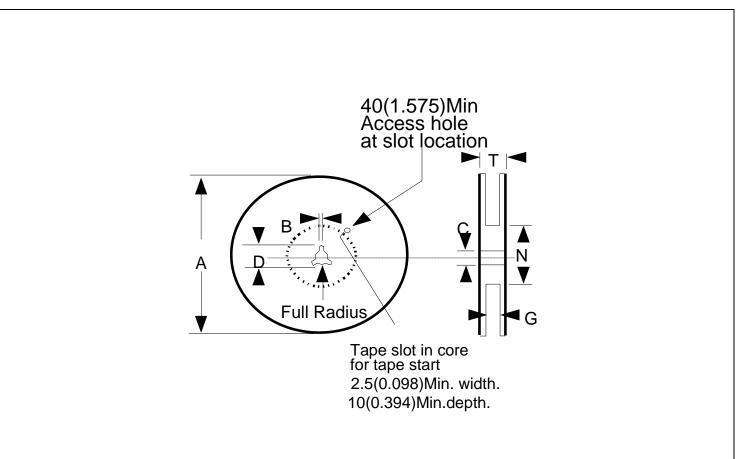
- Note 1: A0B0K0 are determined by component size. The clearance between the component and the cavity must bewithin 0.05 min. to 0.50 max. for 8 mm tape. 0.05 min. to 0.65 max. for 12mm tape. 0.15 min. to 0.90 max. for 16mm tape and 0.05 min. to 1.00 max. for 24 mm tape and larger .the component cannot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











REEL DIMENSIONS

TAPE SIZE	A MAX	B MAX	С	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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