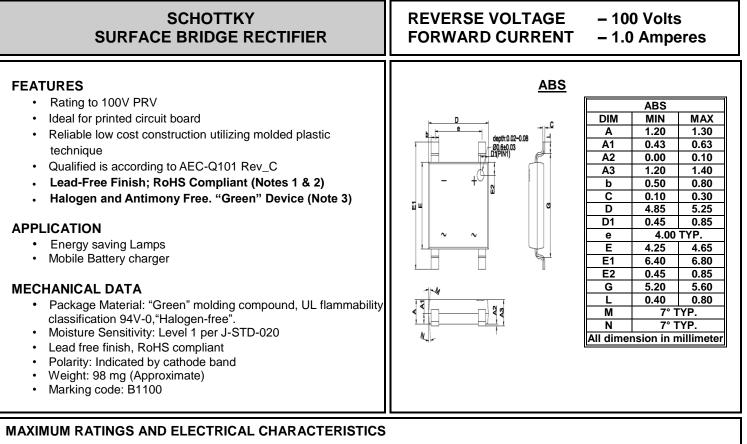




A Product Line of **Diodes Incorporated**

LITE-ON SEMICONDUCTOR **BABS1100**



Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATIN	IGS
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	SYMBOL	VALUE	UNIT	
	V _{RRM}	100 100		
	V _{DC}			
@T _c =120°C	I _(AV)	1.0	A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		30	A	
I ² t Rating for fusing (1ms <t<8.3ms)< td=""><td>3.7</td><td>A²S</td></t<8.3ms)<>		3.7	A ² S	
Operating junction and Storage Temperature range			°C	
	wave	VRRM VDC @Tc=120°C I(AV) wave IFSM I ² t	V _{RRM} 100 V _{DC} 100 @T _C =120°C I _(AV) Instruction 1.0 wave I _{FSM} I ² t 3.7	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	ONDITIONS	SYMBOL	ТҮР	MAX	UNIT
Forward voltage (Note4)	I _F =1.0A	T _J =25°C T _J =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	i	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР		UNIT	
Typical thermal resistance (Note 6,7)	RthJ _c	18		°C/W	
Typical themai resistance (Note 0,7)	RthJ∟	14	C/V		
Note:			REV-2, Oct-2021, K	BHA01	

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.

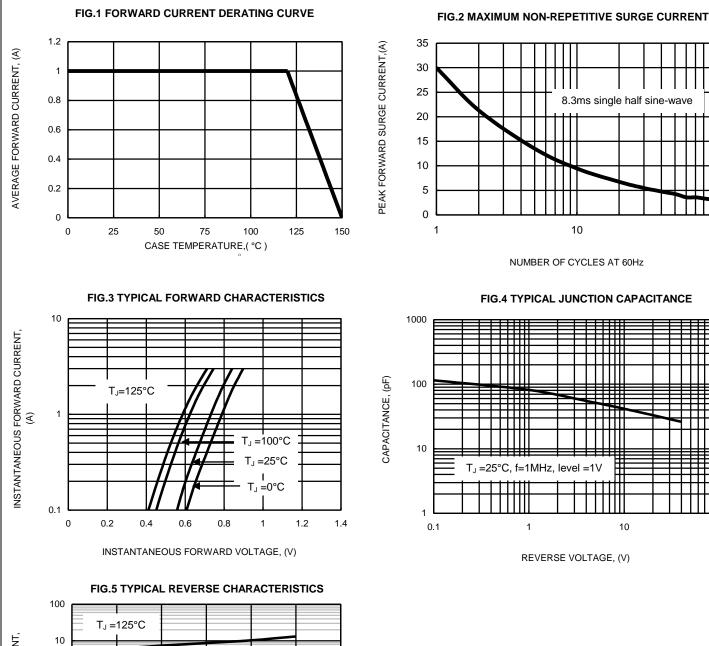
7. The unit mounted on glass-epoxy substrate with 1oz/ft2_2 mm x 2 mm copper pad.

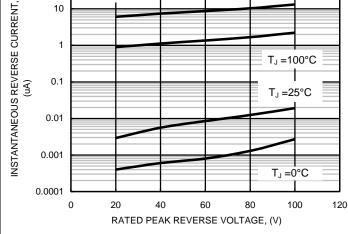
RATING AND CHARACTERISTIC CURVES BABS1100

LITE-ON SEMICONDUCTOR

100

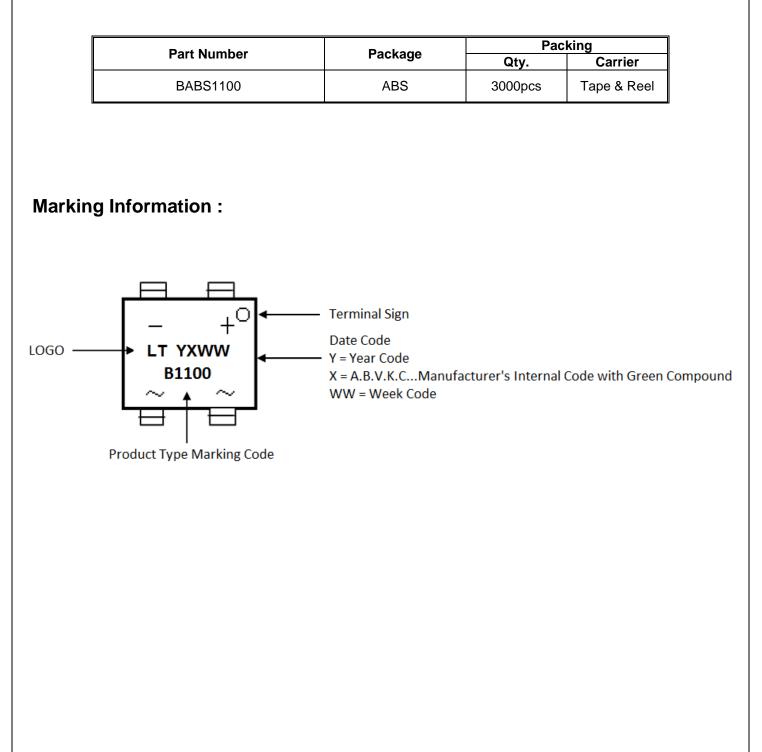
100



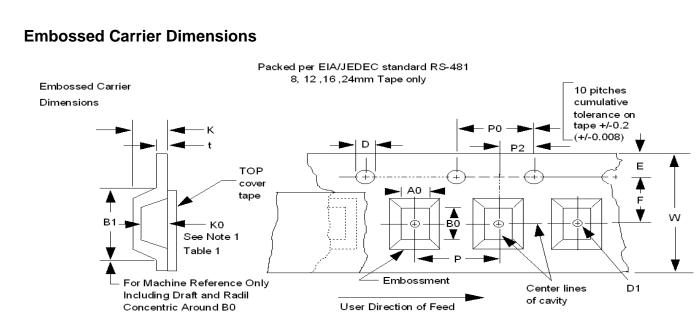




Ordering Information :





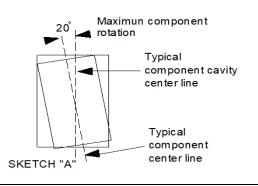


EMBOSSED TYPE

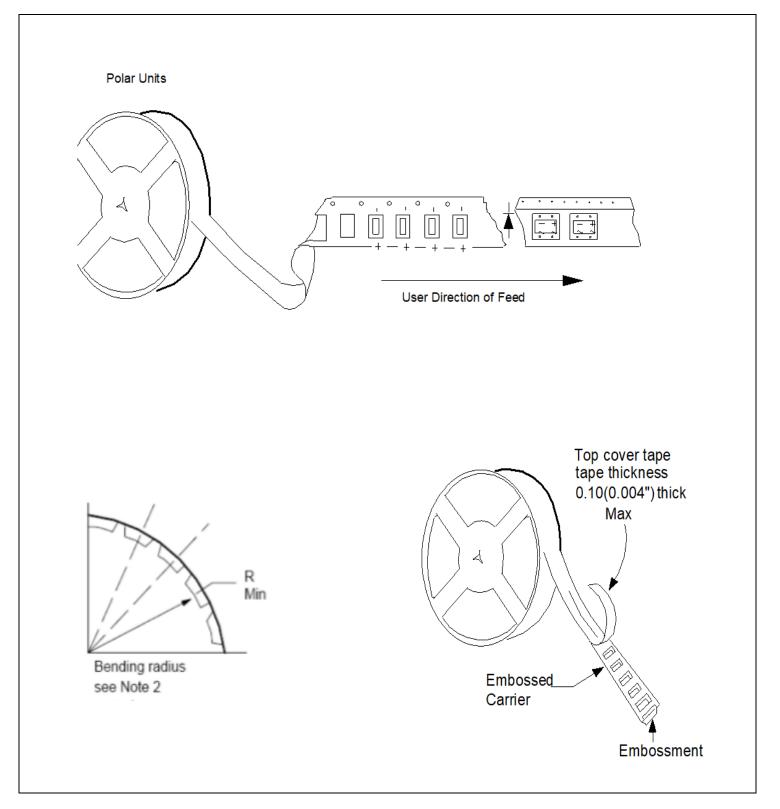
ALL DIMENSION IN MILLIMETERS AND (INCHES)

TAPE	SIZE	D		E		Р	0	t (MAX)	A0B0K0	
12m	m	1.55+0.1 (0.059 + -	.0 004	1.75+/-0.10 (0.069+/-0.004)			-0.10 /-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)	1 / 5		/-0.05 ⊦/-0.002)	30 (1.181)	12.0+/-0.30 (0.472+/-0.0 12)		DIMENSIONS

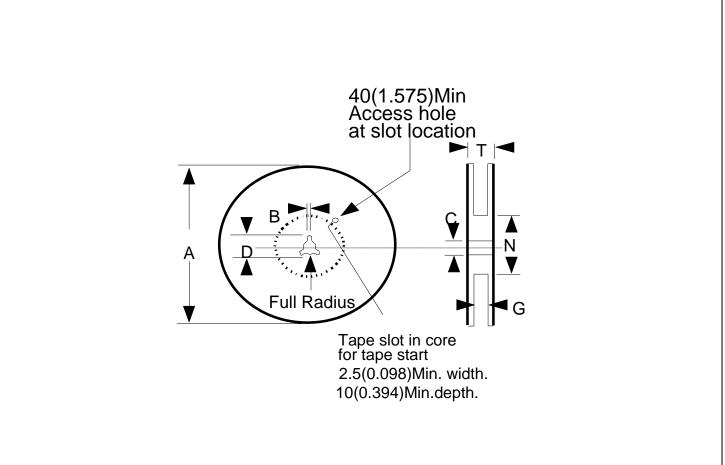
- Note 1: A0B0K0 are determined by component size. The clearance between the component and the cavity must bewithin 0.05 min. to 0.50 max. for 8 mm tape. 0.05 min. to 0.65 max. for 12mm tape. 0.15 min. to 0.90 max. for 16mm tape and 0.05 min. to 1.00 max. for 24 mm tape and larger .the component cannot 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)
			<u> </u>				



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