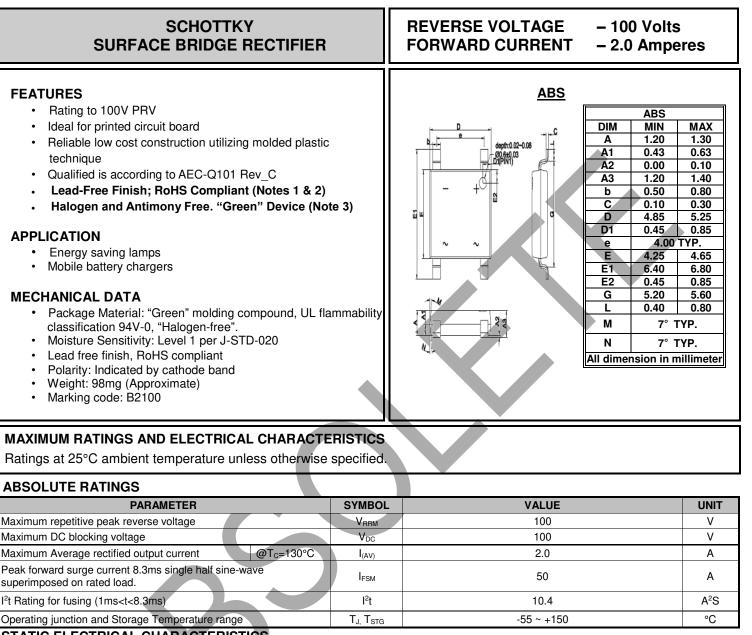


PART DISCONTINU

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LITE-ON SEMICONDUCTOR **BABS2100**



STATIC ELECTRICAL CHARACTERISTICS

| PARAMETER | TEST CONDITIONS | | SYMBOL | ТҮР | MAX | UNIT |
|---------------------------------------|----------------------|---|----------------|-----------|--------------|----------|
| Forward voltage (Note 4) | I _F =2.0A | Tյ=25°C Tյ=125°C | V _F | 0.68 | 0.85 0.70 | v |
| Leakage current | V _R =100V | T _J =25°C T _J =100°C | I _R | 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 _c | 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.

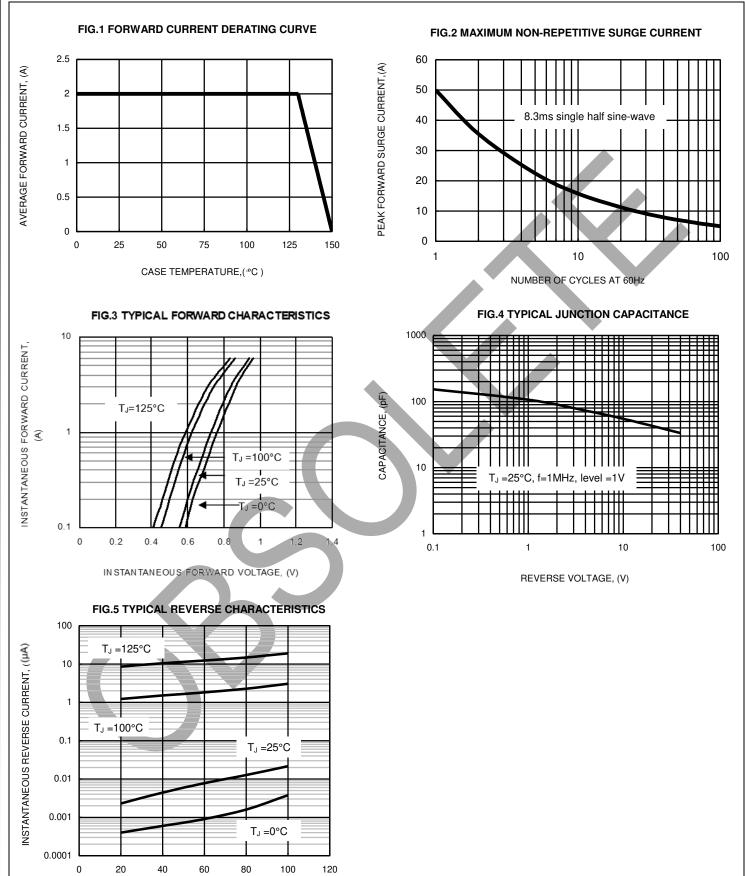
5. Measured at 1.0MHz and applied voltage of 4.0V DC.

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

7. The Unit mounted on glass-epoxy substrate with 1oz/ft²_13 mm x 13 mm copper pad.

RATING AND CHARACTERISTIC CURVES BABS2100 A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR



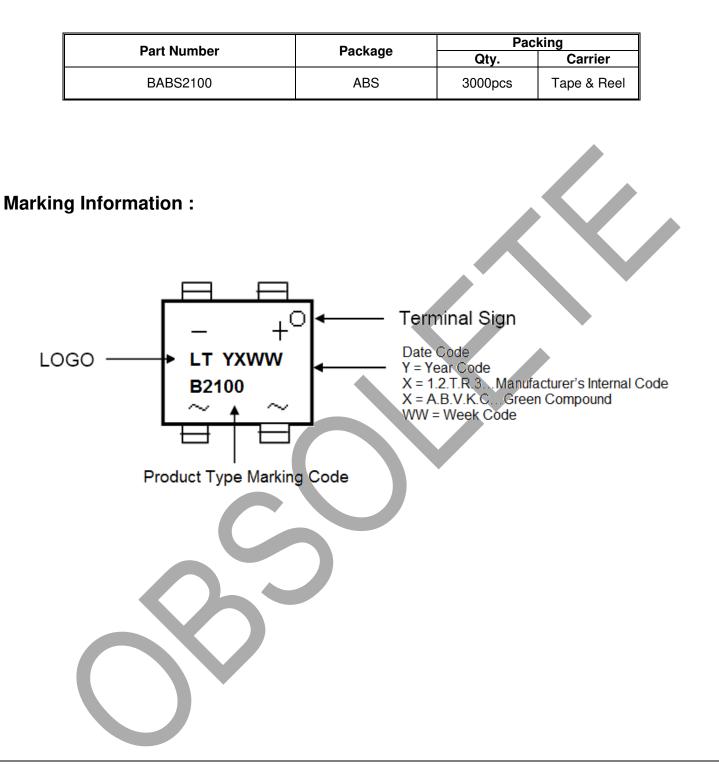
PART DISCONTINUED

OBSOLETE

RATED PEAK REVERSE VOLTAGE, (V)

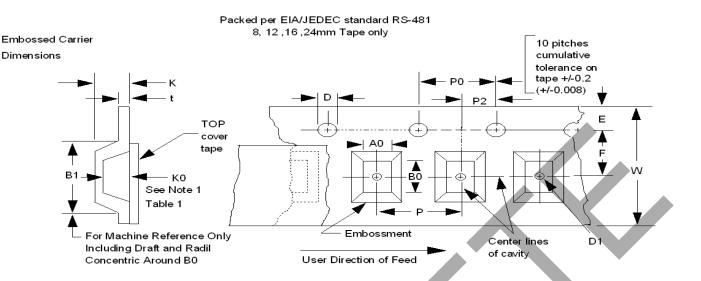


Ordering Information :





Embossed Carrier Dimensions

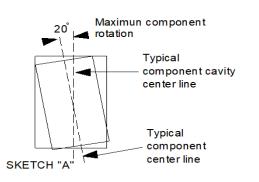


EMBOSSED TYPE

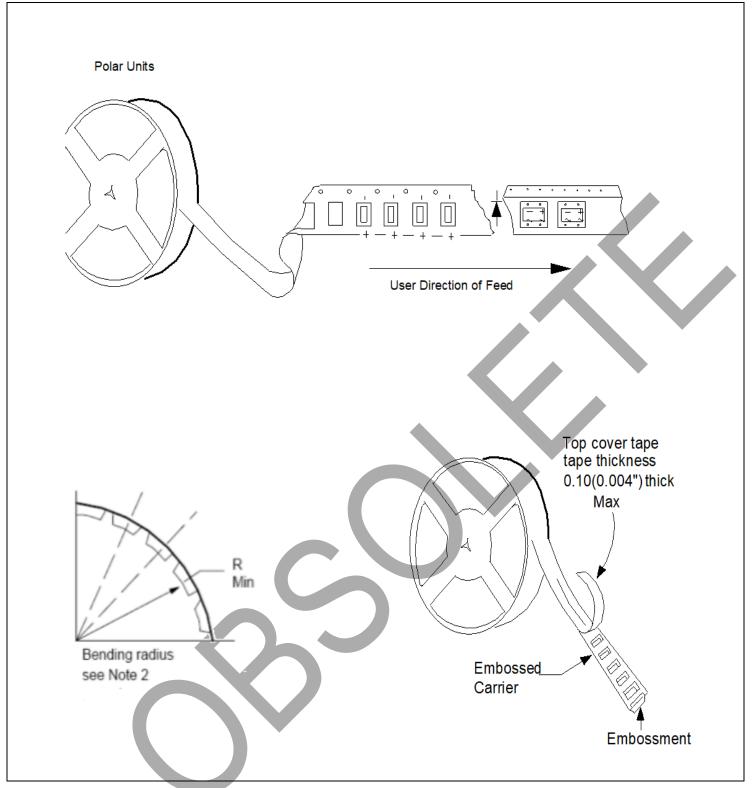
ALL DIMENSION IN MILLIMETERS AND (INCHES)

| 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

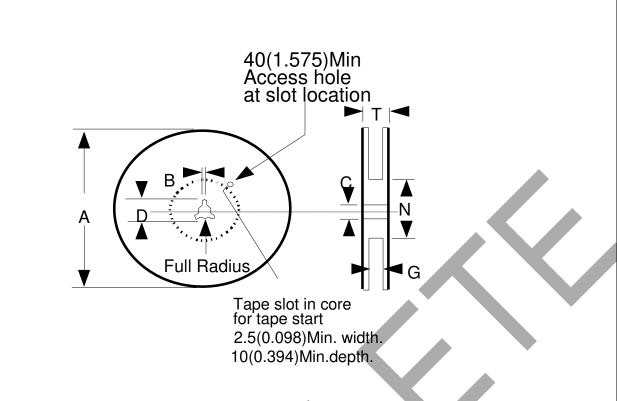








PACKAGING INFORMATION BABS2100



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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