

A Product Line of Diodes Incorporated

REVERSE VOLTAGE

FORWARD CURRENT

ABS

depth:0.02~0.08

0.6±0.03 PIN1) LITE-ON SEMICONDUCTOR BABS260

- 2.0 Amperes

ABS

MIN

1.20

0.43

0.00

1.20

0.50

0.10

4.85

0.45

4.25

6.40

0.45

5.20

0.40

All dimension in millimeter

4.00 TYP.

7° TYP.

7° TYP.

MAX

1.30

0.63

0.10

1.40

0.80

0.30 5.25

0.85

4.65

6.80

0.85

5.60

0.80

- 60 Volts

DIM

Α

A1

A2

A3

b

C

D

D1

e E

E1

E2

G

М

N

NOT RECOMMENDED FOR NEW DESIGN CONTACT US

SCHOTTKY SURFACE BRIDGE RECTIFIER

FEATURES

- Rating to 60V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Qualified according to AEC-Q101 Rev_C
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

APPLICATION

- Energy saving lamps
- Mobile battery chargers

MECHANICAL DATA

- Package Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free".
- Moisture Sensitivity: Level 1 per J-STD-020
- Lead free finish, RoHS compliant
- Weight: 98 grams (Approximate)
- Marking code: BABS260

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	60	V
Maximum DC blocking voltage	V _{DC}	60	V
Maximum Average rectified output current @Tc=110°C	I _(AV)	2.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.	I _{FSM}	50	A
I ² t Rating for fusing (1ms <t<8.3ms)< td=""><td>l²t</td><td>10.4</td><td>A²S</td></t<8.3ms)<>	l ² t	10.4	A ² S
Operating junction and Storage Temperature range	T _J , T _{STG}	-55 ~ +150	°C
STATIC ELECTRICAL CHARACTERISTICS			

PARAMETER	TEST CONDITIONS	SYMBOL	ТҮР	MAX	UNIT
Forward voltage (Note4)	I _F =1.0A	V _F	0.59		v
	T _J =125°C		0.49		
	I=2.0A			0.72	
	T _J =125°C		0.59		
	$T_{J}=25^{\circ}C$	1		20	uA
	V _R =00V T _J =125°C	IR	0.7	100	mA

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical junction capacitance (Note 5)	CJ	125	pF
THERMAL CHARACTERISTICS			

PARAMETERSYMBOLTYPUNITTypical thermal resistance (Note 6,7)RthJc14°C/WRthJi3030°C/W

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.

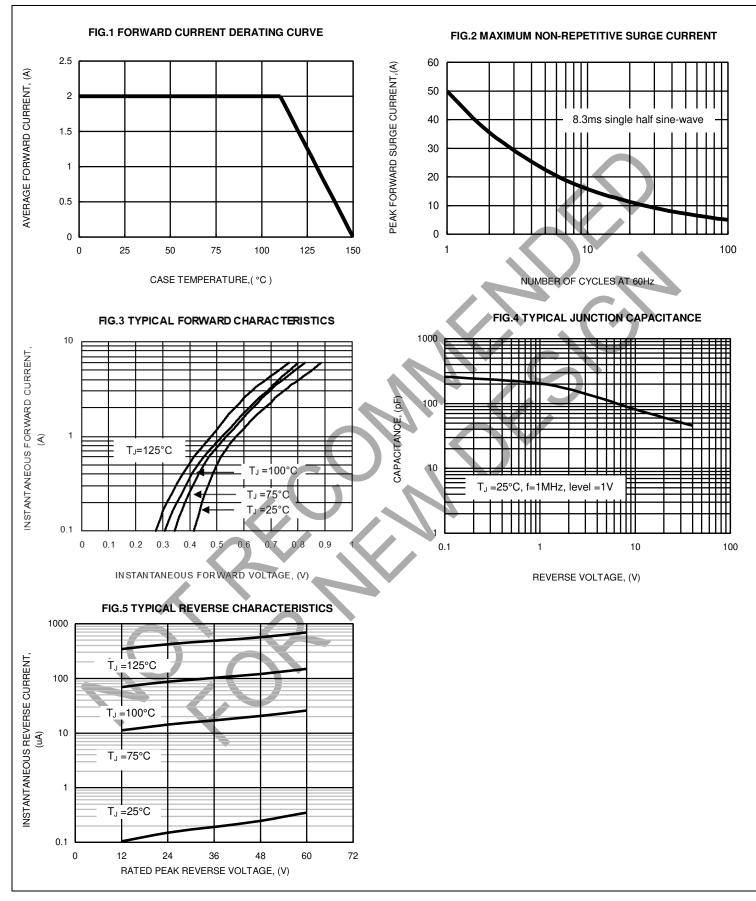
5. Measured at 1.0MHz and applied voltage of 4.0VDC.

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

7. The unit mounted on glass-epoxy substrate with 1oz/ft2 with Copper pad (5mm x 7mm)



RATING AND CHARACTERISTIC CURVES BABS260



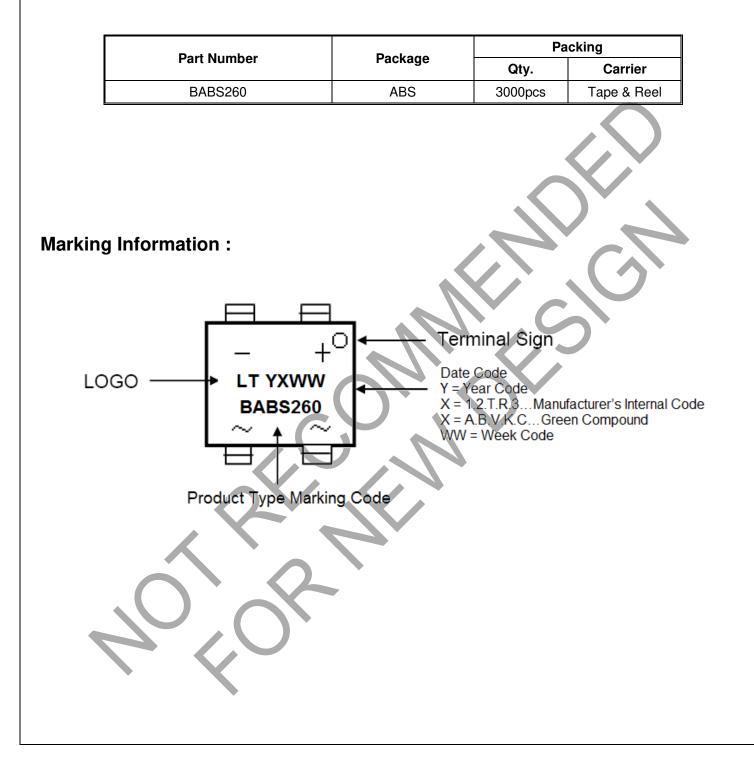
LITE-ON

SEMICONDUCTOR

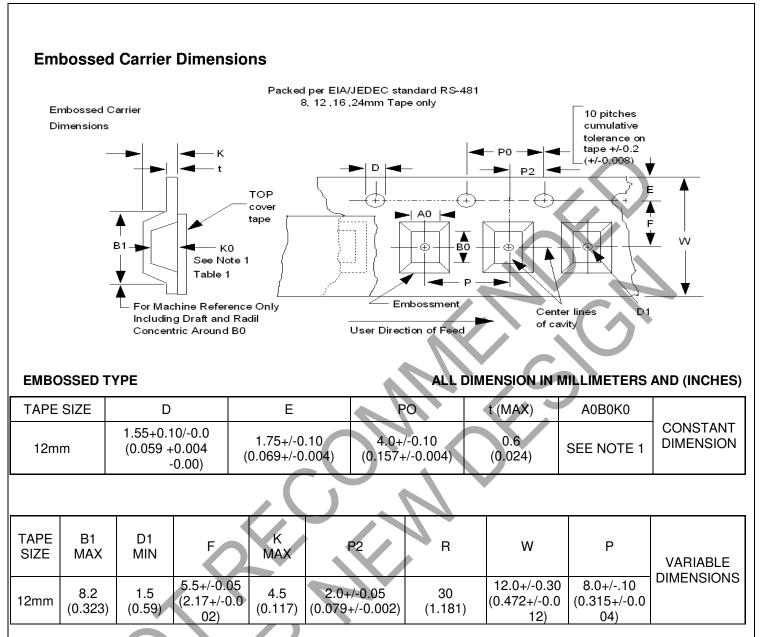
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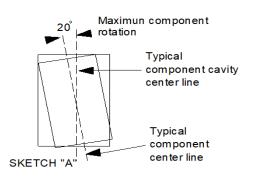
Ordering Information :



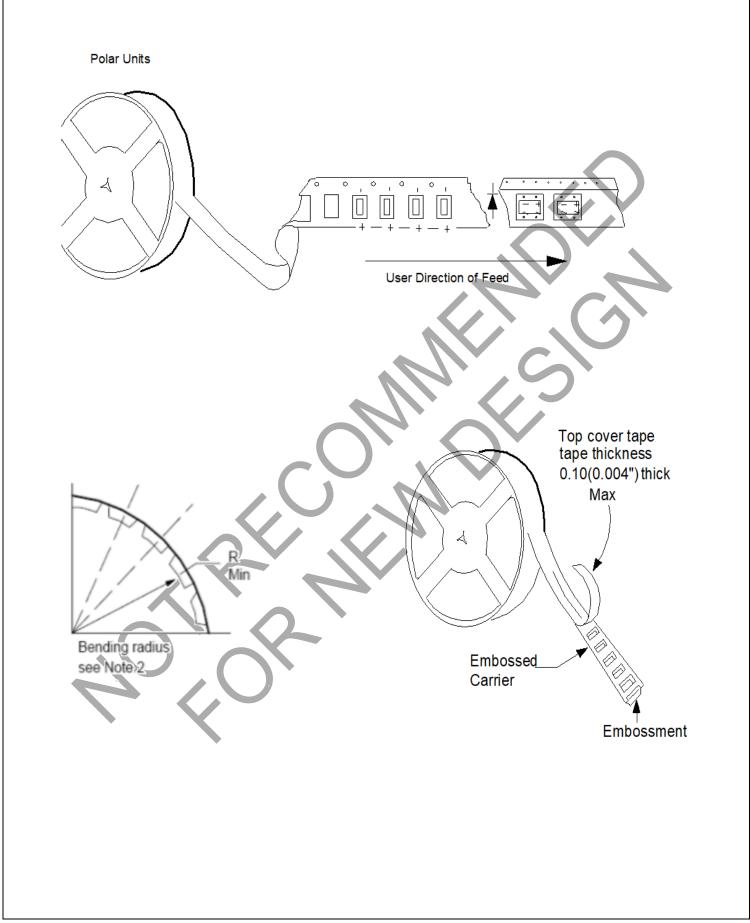




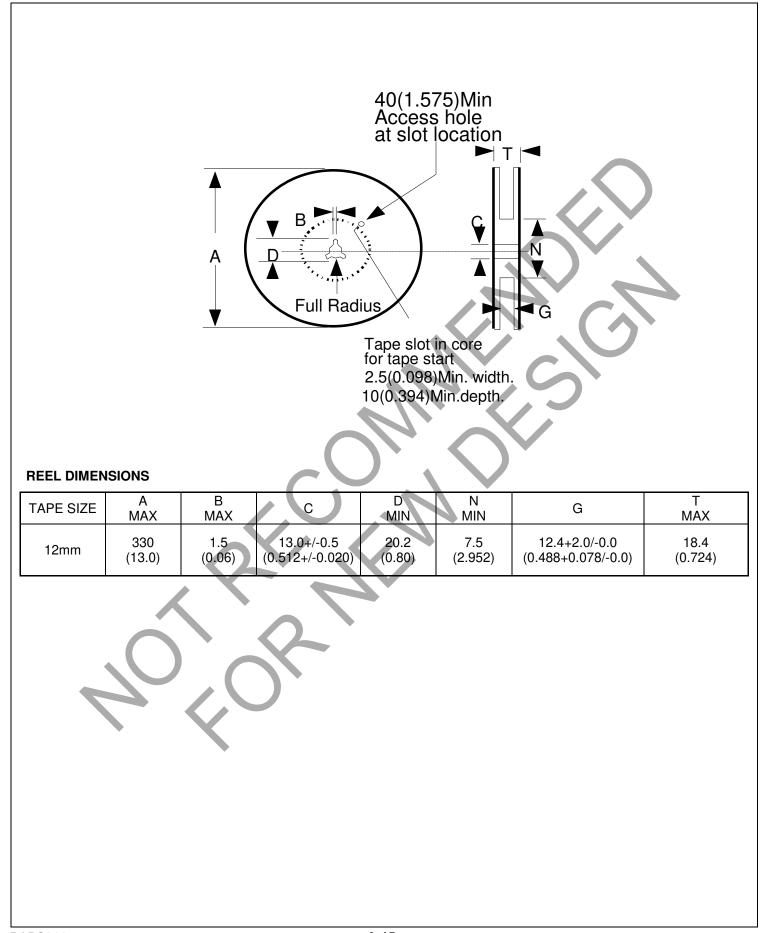
- Note 1: A0B0K0 are determined by component size. The clearance between the component and the cavity must bewithin 0.05 min. to 0.50 max. for 8 mm tape. 0.05 min. to 0.65 max. for 12mm tape. 0.15 min. to 0.90 max. for 16mm tape and 0.05 min. to 1.00 max. for 24 mm tape and larger .the component cannot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













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