

A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR BABS260

NOT RECOMMENDED FOR NEW DESIGN **CONTACT US**

REVERSE VOLTAGE FORWARD CURRENT

- 60 Volts

- 2.0 Amperes

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

ABS depth:0.02~0.08

ABS							
DIM	MIN MAX						
Α	1.20	1.30					
A1	0.43	0.63					
A2	0.00	0.10					
A3	1.20	1.40					
b	0.50	0.80					
C	0.10	0.30					
D	4.85	5.25					
D1	0.45	0.85					
e	4.00 TYP.						
E	4.25	4.65					
E1	6.40	6.80					
E2	0.45	0.85					
G	5.20	5.60					
L	0.40	0.80					
М	7° 7	ΓΥP.					
N 7° TYP.							
All dimer	nsion in n	nillimeter					

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	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.	I _{FSM}	50	А
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	TYP	MAX	UNIT						
Forward voltage (Note4)	I _E =1.0A T _J =25°C		0.59								
	T _J =1.0A	V _F	0.49		\/						
	$I_F=2.0A$ $T_J=25^{\circ}C$ $T_J=125^{\circ}C$			0.72	v						
			0.59								
Lookago current	V _R =60V T _J =25°C	1		20	uA						
Leakage current	V _R =00V T _J =125°C	IR	0.7	100	mA						

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT
Typical junction capacitance (Note 5)	C₃	125	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT
Typical thermal registeres (Note 6.7)	RthJ _C	14	°C/W
Typical thermal resistance (Note 6,7)	RthJ₁	30	*C/vv

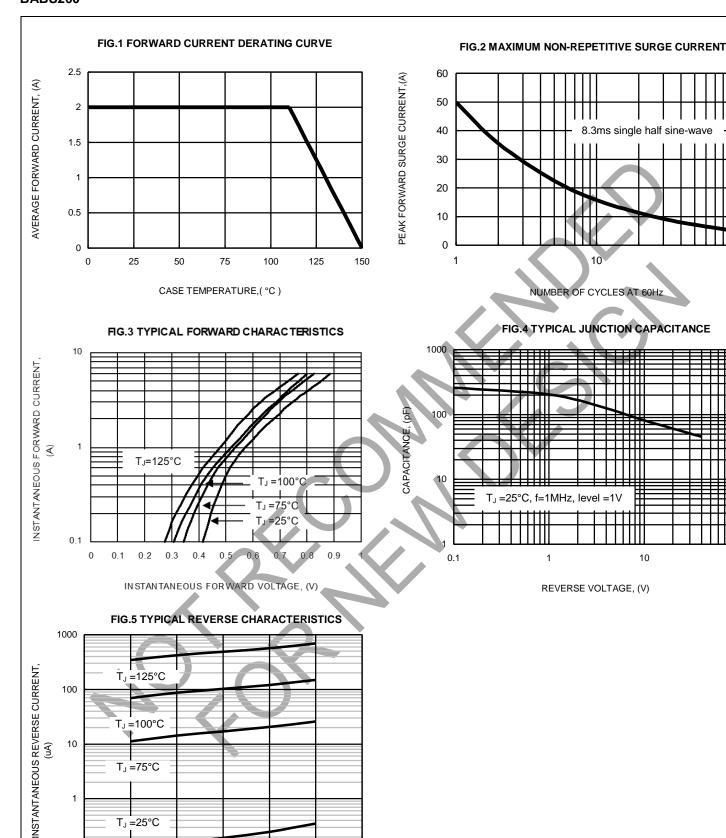
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. 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)

100

100



RATING AND CHARACTERISTIC CURVES **BABS260**



T_J =75°C

T_J =25°C

12

24

36

RATED PEAK REVERSE VOLTAGE, (V)

10

0.1 0

72

60

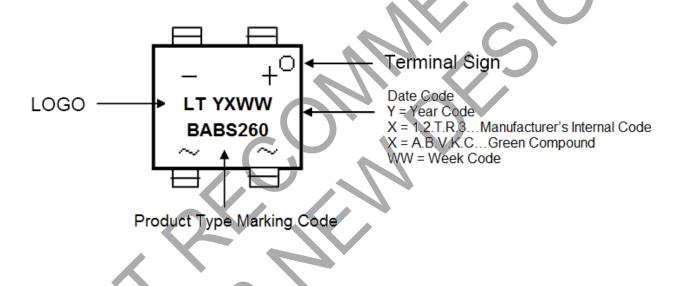
48



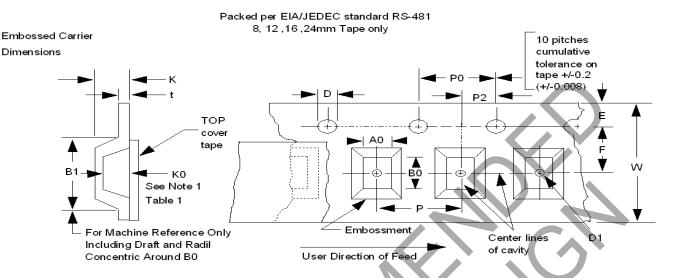
Ordering Information:

Dout Number	Doolsono	Packing		
Part Number	Package	Qty.	Carrier	
BABS260	ABS	3000pcs	Tape & Reel	

Marking Information:



Embossed Carrier Dimensions



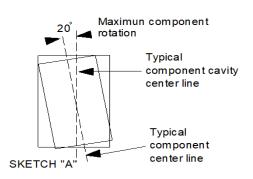
EMBOSSED TYPE

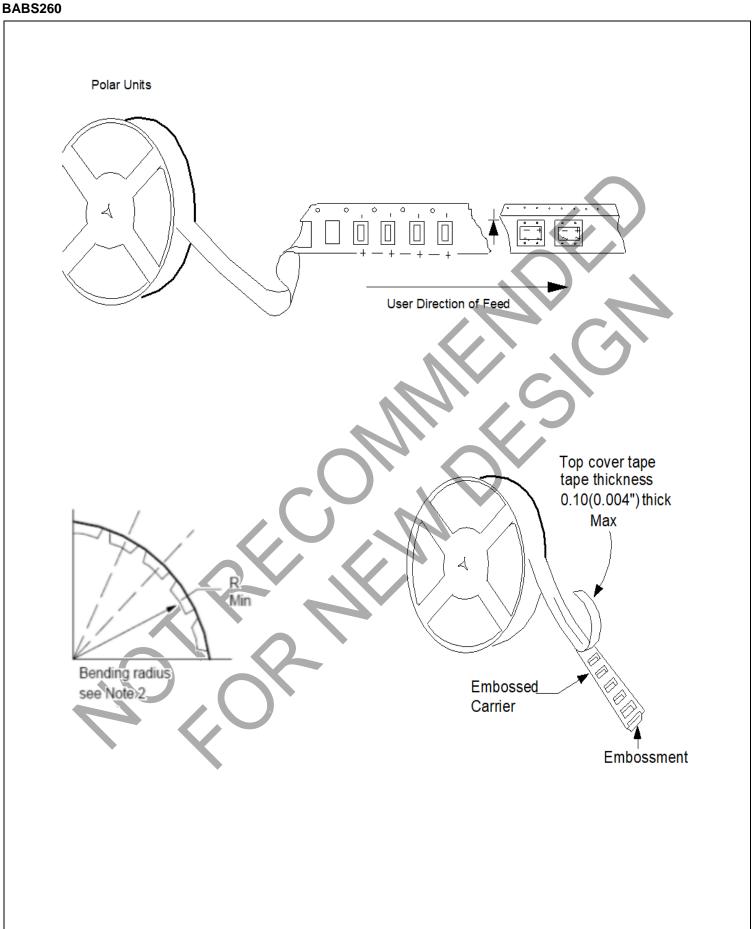
ALL DIMENSION IN MILLIMETERS AND (INCHES)

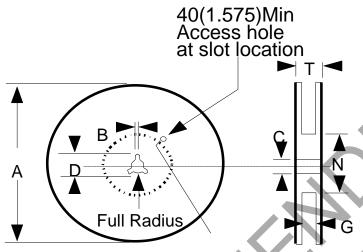
TAPE SIZE	D	E	PO	t (MAX)	A0B0K0	
12mm	1.55+0.10/-0.0 (0.059 +0.004 -0.00)	1.75+/-0.10 (0.069+/-0.004)	4.0+/-0.10 (0.157+/-0.004)	0.6 (0.024)	SEE NOTE 1	CONSTANT DIMENSION

TAPE SIZE	B1 MAX	D1 MIN	F	K MAX	P2	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 12)	8.0+/10 (0.315+/-0.0 04)	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







Tape slot in core for tape start 2.5(0.098)Min. width. 10(0.394)Min.depth.

REEL DIMENSIONS

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



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