

**ABS** 







## **SCHOTTKY SURFACE BRIDGE RECTIFIER**

**REVERSE VOLTAGE FORWARD CURRENT**  - 60 Volts

- 2.0 Amperes

## **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 charger

### **MECHANICAL DATA**

- · Case 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								
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						
е	4.00	TYP.						
Е	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	M 7° TYP.							
N 7° TYP.								
All dimer	nsion in n	nillimeter						

REV.-2, Sep-2021, KBHA04

## 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 <sub>RRM</sub>	60	V				
Maximum DC blocking voltage		$V_{DC}$	60	V				
Maximum Average rectified output current	@T <sub>C</sub> =110°C	I <sub>(AV)</sub>	2.0	Α				
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I <sub>FSM</sub>	50	А				
I <sup>2</sup> t Rating for fusing (1ms <t<8.3ms)< td=""><td></td><td>l<sup>2</sup>t</td><td>10.4</td><td>A<sup>2</sup>S</td></t<8.3ms)<>		l <sup>2</sup> t	10.4	A <sup>2</sup> S				
Operating junction and Storage Temperature range		T <sub>J</sub> , T <sub>STG</sub>	-55 ~ <b>+</b> 150	°C				

## STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note4)	I <sub>E</sub> =1.0A	T <sub>J</sub> =25°C		0.59		
	IF=1.0A	T <sub>J</sub> =125°C	V <sub>F</sub>	0.49		17
	I <sub>F</sub> =2.0A	T <sub>J</sub> =25°C		==	0.72	V
		T <sub>J</sub> =125°C		0.59		
Leakage current	V <sub>R</sub> =60V	T <sub>J</sub> =25°C	ı		20	uA
	V <sub>R</sub> =60 V	T <sub>J</sub> =125°C	IR	0.7	100	mA

## DYNAMIC ELECTRICAL CHARACTERISTICS

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

#### THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT					
Typical thermal resistance (Note 6,7)	RthJ <sub>C</sub>	14	°C/W					
Typical thermal resistance (Note 6,7)	$RthJ_L$	30	C/ VV					

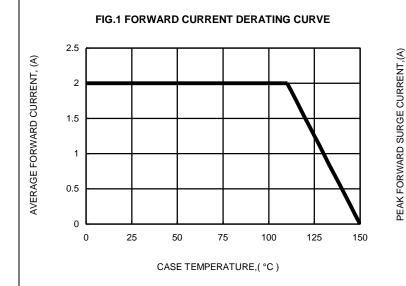
#### Note:

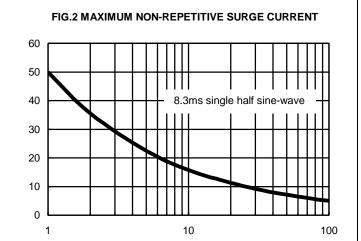
1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

- 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 Coppe Downloaded From Oneyac.com



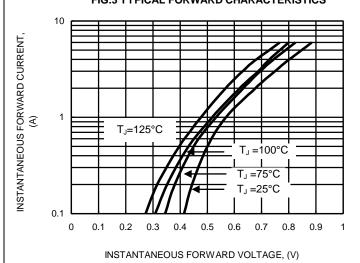
# RATING AND CHARACTERISTIC CURVES BABS260

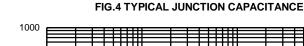


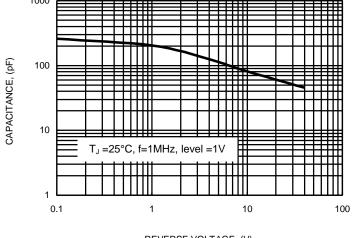


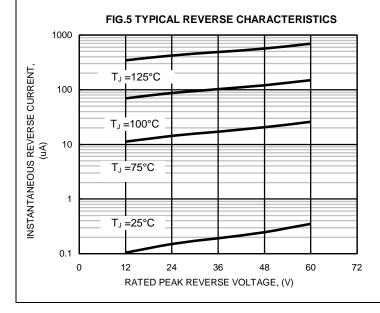
## NUMBER OF CYCLES AT 60Hz

## FIG.3 TYPICAL FORWARD CHARACTERISTICS







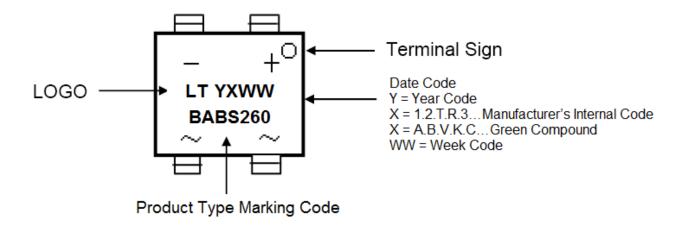




## **Ordering Information:**

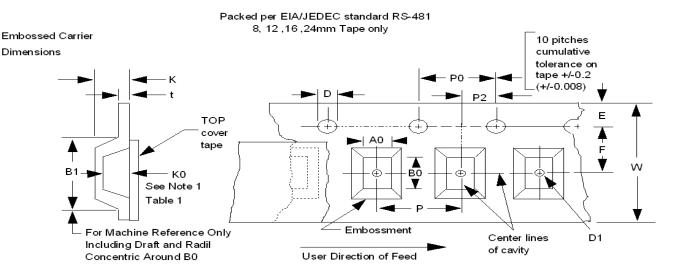
Part Number	Case	Packaging	
BABS260	ABS	3000pcs / Tape & Reel	

## **Marking Information:**



# PACKAGING INFORMATION BABS260

## **Embossed Carrier Dimensions**



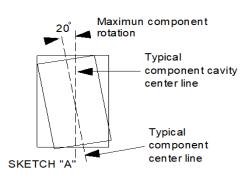
## **EMBOSSED TYPE**

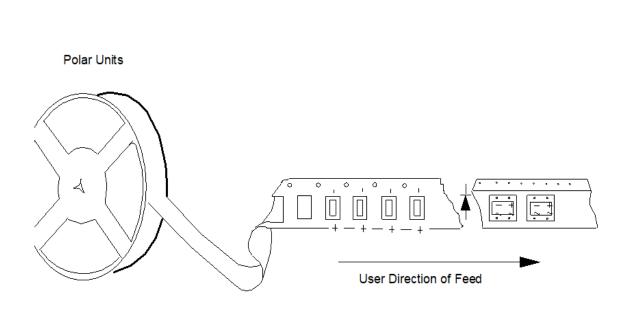
## **ALL DIMENSION IN MILLIMETERS AND (INCHES)**

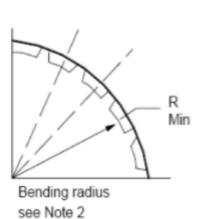
TAPE SIZE	D	E	PO	t (MAX)	A0B0K0	
12mm	1.55+0.10/-0.0 (0.059 +0.004 -0.00)	1.75+/-0.10 (0.069+/-0.004)	4.0+/-0.10 (0.157+/-0.004)	0.6 (0.024)	SEE NOTE 1	CONSTANT DIMENSION

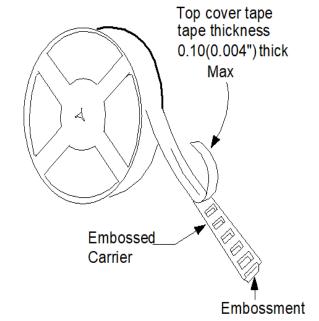
TAPE SIZE	B1 MAX	D1 MIN	F	K MAX	P2	R	W	Р	VARIABLE
12mm	8.2 (0.323)	1.5 (0.59)	5.5+/-0.05 (2.17+/-0.0 02)	4.5 (0.117)	2.0+/-0.05 (0.079+/-0.002)	30 (1.181)	12.0+/-0.30 (0.472+/-0.0 12)	8.0+/10 (0.315+/-0.0 04)	DIMENSIONS

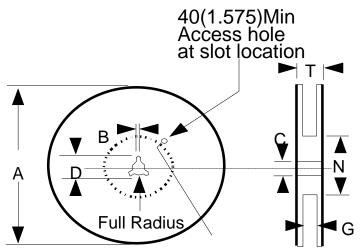
- Note 1: A0B0K0 are determined by component size. The clearance between the component and the cavity must bewithin 0.05 min. to 0.50 max. for 8 mm tape. 0.05 min. to 0.65 max. for 12mm tape. 0.15 min. to 0.90 max. for 16mm tape and 0.05 min. to 1.00 max. for 24 mm tape and larger .the component cannot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