

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

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

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.		IFSM	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		TJ, TSTG	-55 ~ +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	ТҮР	MAX	UNIT
Forward voltage (Note1)	I _F =1.0A	TJ=25°C	V _F	0.59		- V
		TJ=125°C		0.49		
	IF=2.0A	T _J =25°C			0.72	
		TJ=125°C		0.59		
Laakaga aurrant	V _R =60V	TJ=25°C	1		20	uA
Leakage current	VR=00V	TJ=125°C	IR	0.7	100	mA

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical junction capacitance (Note 2)	CJ	125	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР		UNIT
Turning thermal registeres (Note 2.4)	RthJc	14		°C/W
Typical thermal resistance (Note 3,4)	RthJ∟	30		C/VV
Note :	REV1, Nov-2020,KBI	HA04		

Note :

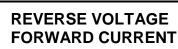
(1) 300us pulse width, 2% duty cycle.

(2) Measured at 1.0MHz and applied voltage of 4.0VDC.

Thermal resistance test performed in accordance with JESD-51. (3)

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

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depth:0.02-0.08

- Ø0.6±0.03 D1(PIN1)

- 60 Volts

BABS260

– 2.0 Amperes



ABS

	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						
С	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						
M	7° 1	YP.						
N	N 7° TYP.							
All dimension in millimeter								

RATING AND CHARACTERISTIC CURVES BABS260



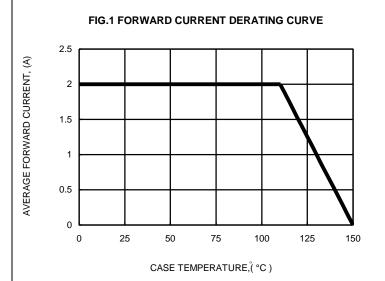
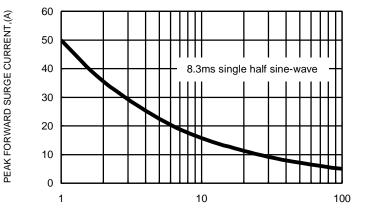
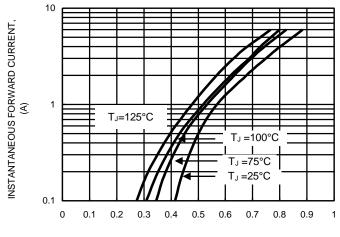


FIG.2 MAXIMUM NON-REPETITIVE SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

FIG.3 TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

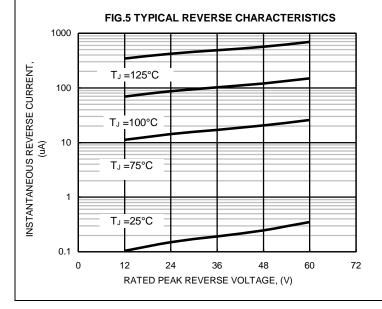
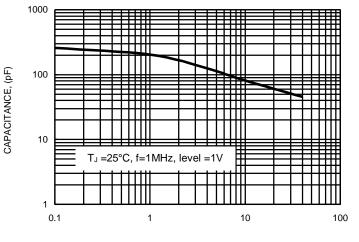


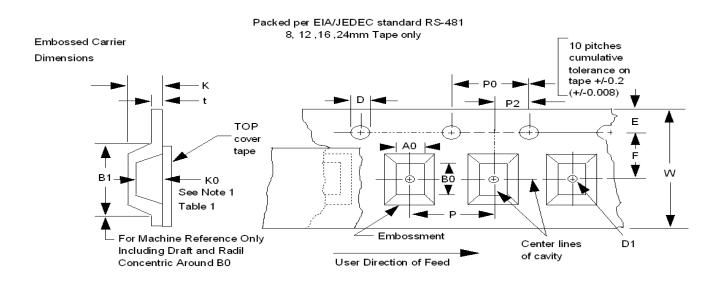
FIG.4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE, (V)

LITEON

Embossed Carrier Dimensions



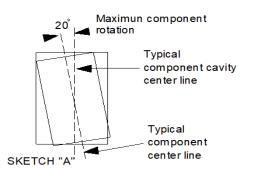
EMBOSSED TYPE

ALL DIMENSION IN MILLIMETERS AND (INCHES)

TAPE	SIZE	D		E		Р	0	t (MAX)	A0B0K0	
12m	m	1.55+0.1 (0.059 + -		1.75+/-0 (0.069+/-0			/-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	Ρ	VARIABLE
12mm	8.2 (0.323)	1.5 (0.59)	5.5+/-0.05 (2.17+/-0.0 02)	15		/-0.05 ⊦/-0.002)	30 (1.181)	12.0+/-0.30 (0.472+/-0.0 12)		DIMENSIONS

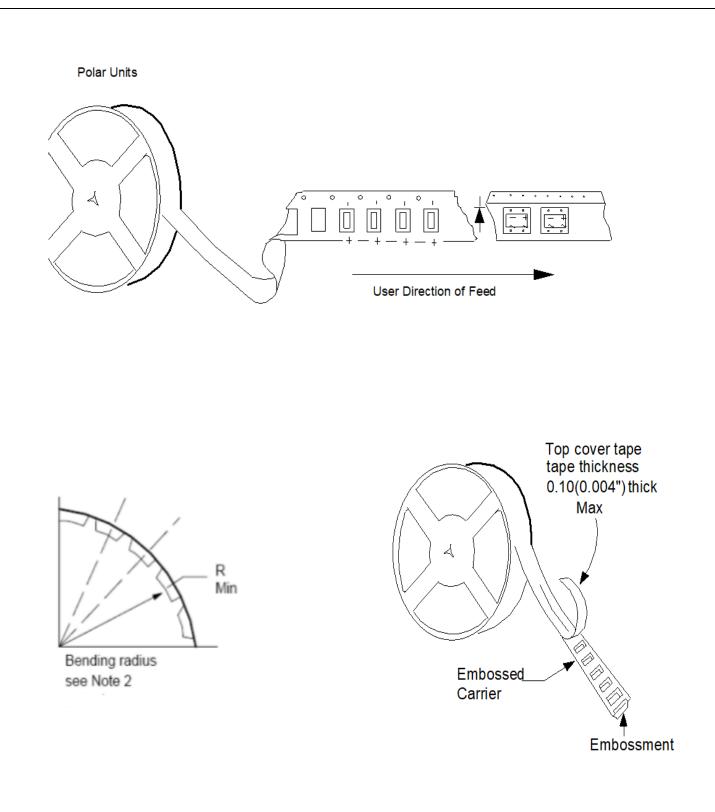
Note 1: A0B0K0 are determined by component size. The clearance between the component and the cavity must bewithin 0.05 min. to 0.50 max. for 8 mm tape. 0.05 min. to 0.65 max. for 12mm tape. 0.15 min. to 0.90 max. for 16mm tape and 0.05 min. to 1.00 max. for 24 mm tape and larger .the component cannot rotate more than 20 within the determined cavity . see sketch "A" below.

2: Tape and component shall pass around radius "R" without damage



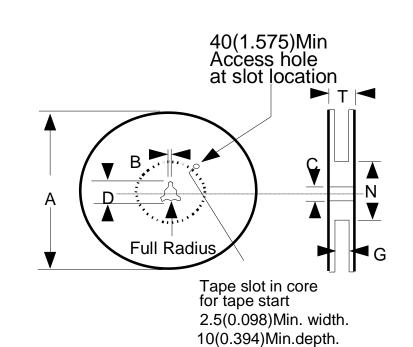
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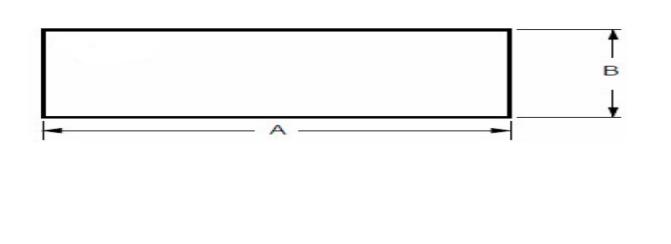




REEL DIMENSIONS

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)

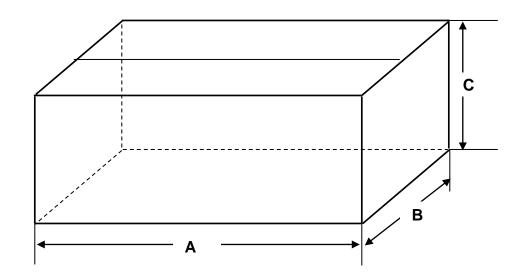
1. SMA/B 襯板



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2. CARTON



UNIT:mm

DEVICE	Q'TY/REEL	REEL DIA	襯板 SIZE	CARTON SIZE	Q'TY/CARTON
TYPE	(PCS)	(mm)	(mm)	(mm)	(PCS)
ABS	3000	330	1300x200	355x245x350	36K



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