

HIGH SPEED SILICON DIODES

BAV100, BAV101 BAV102, BAV103

SOD - 80C Mini MELF (LL- 34)

Polarity: Cathode is indicated by a white band

Hermetically Sealed, Glass Silicon Diodes

Intended for Switching and General Purposes in Industrial Equipment e.g. Oscilloscopes, Digital Voltmeters and Video Output Stages in Colour Television

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	BAV100	BAV101	BAV102	BAV103	UNIT
Continuous Reverse Voltage	V _R	50	100	150	200	V
Repetitive Peak Reverse Voltage	V _{RRM}	60	120	200	250	V
Average Rectified Forward Current	I _{F (AV)}			250		mA
Forward Current (DC)	١ _F			mA		
Repetitive Peak Forward Current	I _{FRM}		625			
Non Repetitive Peak Forward Current t=1 s	I _{FSM}		1			
t=1 m 6	I _{FSM}			5		A
Power Dissipation up to T _a =25 ^o C	P _{tot}		400		mW	
Storage Temperature	T _{stg}		- 65 to +175			°C
Junction Temperature	Τ _i			175		

THERMAL RESISTANCE

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Forward Voltage	V _F	V _F I _F =100mA		1.00	V
		I _F =200mA		1.25	V
Reverse Breakdown Voltage	*V _{BR}	I _R =100μΑ			
		BAV100	60		V
		BAV101	120		V
		BAV102	200		V
		BAV103	250		V
Reverse Current	I _R	$V_R = V_R max$		100	nA
		V _R = V _R max, T _j =150⁰C		100	μA
Differential Resistance	r _{diff}	I _F =10mA	Typ 5		Ω

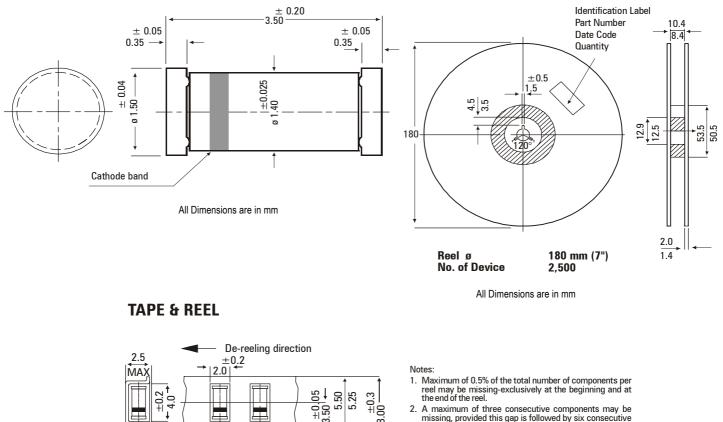
DYNAMIC CHARACTERISTICS

Diode Capacitance	C _d	V _R =0V, f=1MHz	5	pF
Reverse Recovery Time	t _{rr}	I_F =30mA, to I_R =30mA R _I =100 Ω	50	ns
		Measured @ I _R =3mA		

* @ Zero life time, measured under pulse conditions to avoid excessive dissipation and voltage limited @ 275V BAV100_103Rev141002E

BAV100, BAV101 BAV102, BAV103

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50 5.25 ±0.3

[₩][†] [₩]

2

4.1 4.1 3.9 3.9

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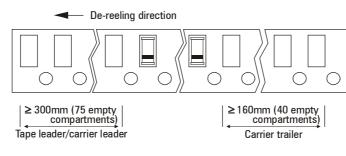
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1.95

SOD 80C (LL-34) Mini MELF Hermetically Sealed Glass Package

Maximum of 0.5% of the total number of components per reel may be missing-exclusively at the beginning and at the end of the reel.

2. A maximum of three consecutive components may be missing, provided this gap is followed by six consecutive components.



All Dimensions are in mm

Drawings are not to scale

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
SOD-80C T&R	2.5K/reel	225 gm/2.5K pcs	9" x 9" x 9"	-	18" x 12" x 10" 19" x 19" x 20"	80K 320K	7.2 kgs 28.8 kgs

BAV100 103Rev141002E

Continental Device India Limited

+0.2

0.3

MAX

40

ø1.6

ø1.4

Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Customer Notes

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



CDIL is a registered Trademark of **Continental Device India Limited** C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119 email@cdil.com www.cdilsemi.com

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