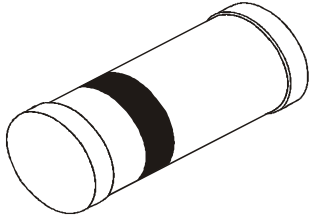


SILICON PLANAR SCHOTTKY BARRIER DIODE

BAS85



**SOD - 80C
Mini MELF (LL- 34)**

Polarity: Cathode is indicated by a grey band

Hermetically Sealed, Glass Silicon Diode

Ultra High Speed Switching Diode

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Reverse Voltage (Continuous)	V_R	30	V
Forward Current (DC)	I_F	200	mA
Average Forward Current	$I_{F(Av)}$	200	mA
Repetitive Peak Forward Current $t_p \leq 1s; d \leq 0.5$	I_{FRM}	300	mA
Non Repetitive Peak Forward Current $t_p=10ms$	I_{FSM}	5	A
Storage Temperature	T_{stg}	- 65 to +150	°C
Junction Temperature	T_j	125	°C
Operating Ambient Temperature	T_{amb}	- 65 to +125	°C

THERMAL RESISTANCE

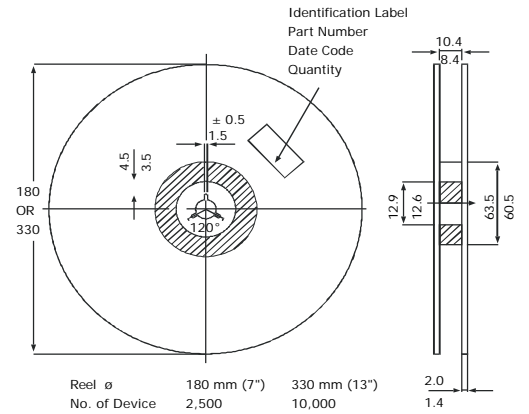
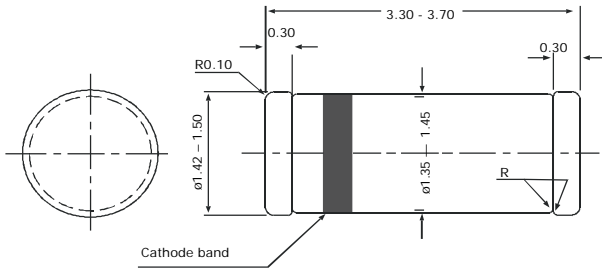
Junction to Ambient in free air	$R_{th(j-a)}$	320	K/W
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ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless specified otherwise)

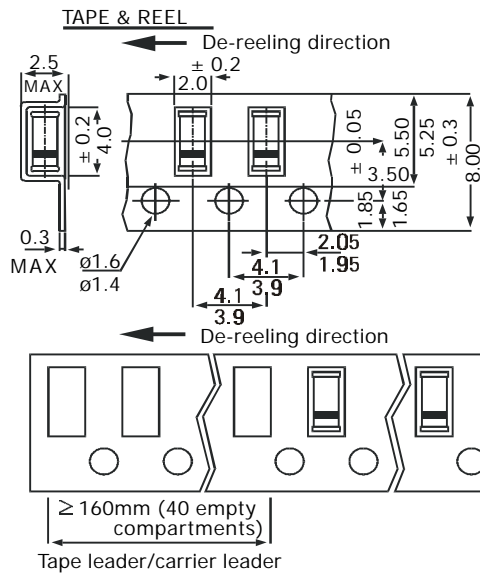
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F=0.1mA$		0.24	V
		$I_F=1mA$		0.32	V
		$I_F=10mA$		0.40	V
		$I_F=30mA$		0.50	V
		$I_F=100mA$		0.80	V
Reverse Current	I_R	$V_R=25V$		2.3	μA
Diode Capacitance	C_d	$V_R=1V, f=1MHz$		10	pF

BAS85Rev121105E

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



All dimensions are in mm



Notes :-

1. 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.

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	100 gm/3K pcs	3" x 7.5" x 7.5"	10.0K	17" x 15" x 13.5"	160.0K	10 kgs
	10K/reel	400 gm/10K pcs	13" x 13" x 0.5"	10.0K	17" x 15" x 13.5"	300.0K	15 kgs

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).

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 is 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 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).

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