

MNLM185BY-X-2.5 REV 0AL

 Original Creation Date: 08/15/95
 Last Update Date: 08/15/95
 Last Major Revision Date: 08/15/95

MICROPOWER VOLTAGE REFERENCE DIODE
Industry Part Number

LM185BY

NS Part Numbers

 LM185BYH2.5-SMD
 LM185BYH2.5/883

Prime Die

LM185BY

Processing

MIL-STD-883, Method 5004

Quality Conformance Inspection

MIL-STD-883, Method 5005

Subgrp	Description	Temp (°C)
1	Static tests at	+25
2	Static tests at	+125
3	Static tests at	-55
4	Dynamic tests at	+25
5	Dynamic tests at	+125
6	Dynamic tests at	-55
7	Functional tests at	+25
8A	Functional tests at	+125
8B	Functional tests at	-55
9	Switching tests at	+25
10	Switching tests at	+125
11	Switching tests at	-55

Electrical Characteristics

DC PARAMETERS:

SYMBOL	PARAMETER	CONDITIONS	NOTES	PIN-NAME	MIN	MAX	UNIT	SUB-GROUPS
Vref	Reverse Breakdown Voltage	Ir = 20uA			2.462	2.538	V	1
		Ir = 30uA			2.425	2.575	V	2, 3
		Ir = 1mA			2.462	2.538	V	1
					2.425	2.575	V	2, 3
		Ir = 20mA			2.462	2.538	V	1
					2.425	2.575	V	2, 3
Delta Vref/ Delta Ir	Reverse Breakdown Voltage Change with Current	20uA ≤ Ir ≤ 1mA			-1.0	1.0	mV	1
		30uA ≤ Ir ≤ 1mA			-1.5	1.5	mV	2, 3
		1mA ≤ Ir ≤ 20mA			-10.0	10.0	mV	1
		1mA ≤ Ir ≤ 20mA			-20.0	20.0	mV	2, 3
Vf	Forward Bias Voltage	If = 2mA			-1.0	-0.4	V	1
Tc	Temperature Coefficient	LM185BY	1			50	ppm/C	1, 2, 3

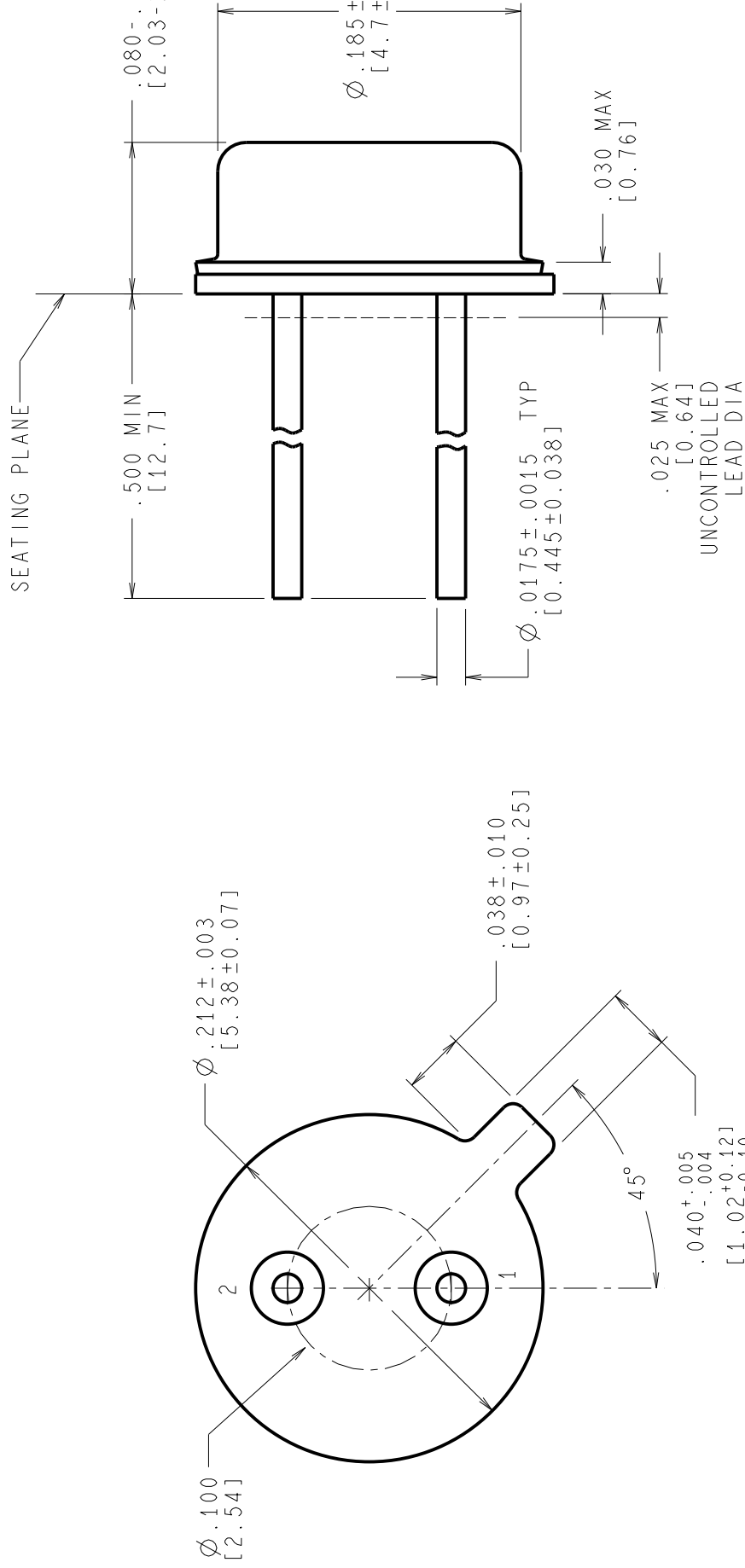
Note 1: The average temperature coefficient is defined as the maximum deviation of reference voltage at all measured temperatures between the operating Tmax and Tmin, divided by Tmax - Tmin. The measured temperatures are -55 C, -40 C, 0 C, 25 C, 70 C, 85 C and 125 C.

Graphics and Diagrams

GRAPHICS#	DESCRIPTION
H02ARD	2LD .100 DIA P.C. T0-46 METAL CAN PKG (P/P DWG)

See attached graphics following this page.

LTR	
D	REVISE & RE



CONTROLLING DIMENSION IS INCH
VALUES IN [] ARE MILLIMETERS

NOTES: UNLESS OTHERWISE SPECIFIED

- LEADS TO BE LOCATED WITHIN .007 IN/ 0.18 mm OF THEIR TRUE POSITIONS RELATIVE TO A MAXIMUM WIDTH TAB.

APPROVALS	DA
DRAWN	