

MNLM185-X-1.2 REV 0AL

 Original Creation Date: 08/15/95
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MICROPOWER VOLTAGE REFERENCE DIODE
Industry Part Number

LM185

NS Part Numbers

 LM185E-1.2/883
 LM185H-1.2/883

Prime Die

LM185

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
V _{ref}	Reverse Breakdown Voltage	I _r = 10 μ A			1.223	1.247	V	1
		I _r = 20 μ A			1.205	1.26	V	2, 3
		I _r = 1mA			1.223	1.247	V	1
					1.205	1.26	V	2, 3
		I _r = 20mA			1.223	1.247	V	1
					1.205	1.26	V	2, 3
Delta V _{ref} /Delta I _r	Reverse Breakdown Voltage Change with Current	10 μ A $\leq$ I _r $\leq$ 1mA			-1.0	1.0	mV	1
		20 μ A $\leq$ I _r $\leq$ 1mA			-1.5	1.5	mV	2, 3
		1mA $\leq$ I _r $\leq$ 20mA			-10.0	10.0	mV	1
		1mA $\leq$ I _r $\leq$ 20mA			-20.0	20.0	mV	2, 3
V _f	Forward Bias Voltage	I _f = 2mA			-1.0	-0.4	V	1