



MILITARY DATA SHEET

MNLM120-8.0-H REV 0BL

Original Creation Date: 07/06/95
Last Update Date: 12/10/96
Last Major Revision Date: 07/06/95

THREE TERMINAL NEGATIVE REGULATOR

Industry Part Number

LM120-8H

NS Part Numbers

LM120H-8.0/883

Prime Die

LM056DG-8.0

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

(The following conditions apply to all the following parameters, unless otherwise specified.)
DC: $V_{in} = -10.5V$, $I_l = 5mA$

SYMBOL	PARAMETER	CONDITIONS	NOTES	PIN-NAME	MIN	MAX	UNIT	SUB-GROUPS
Vout	Output Voltage	$V_{in} = -10.5V$			-8.2	-7.8	V	1
		$V_{in} = -25V$			-8.35	-7.65	V	1, 2, 3
		$V_{in} = -10.5V$, $I_l = 500mA$			-8.35	-7.65	V	1, 2, 3
		$V_{in} = -25V$, $I_l = 100mA$			-8.35	-7.65	V	1, 2, 3
Vrline	Line Regulation	$-25V \leq V_{in} \leq -10.5V$			-40	40	mV	1
		$-25V \leq V_{in} \leq -10.5V$			-80	80	mV	2, 3
Vrload	Load Regulation	$5mA \leq I_l \leq 500mA$, $V_{in} = -14V$			-80	80	mV	1
		$5mA \leq I_l \leq 500mA$, $V_{in} = -14V$			-160	160	mV	2, 3
Iq	Quiescent Current	$V_{in} = -10.5V$				4	mA	1, 2, 3
		$V_{in} = -25V$				4	mA	1, 2, 3
Delta Iq(Line)	Quiescent Current Change	$-25V \leq V_{in} \leq -10.5V$			-0.4	0.4	mA	1
		$-25V \leq V_{in} \leq -10.5V$			-0.5	0.5	mA	2, 3
Delta Iq(Load)	Quiescent Current Change	$5mA \leq I_l \leq 500mA$, $V_{in} = -14V$			-0.4	0.4	mA	1
		$5mA \leq I_l \leq 500mA$, $V_{in} = -14V$			-0.5	0.5	mA	2, 3
Ios	Short Circuit Current	$V_{in} = -25V$			-1.5		A	1
Rr	Ripple Rejection	$V_{in} = -13V$, $I_l = 125mA$, $f = 120Hz$, $e_i = 1V_{rms}$			54		dB	4

Graphics and Diagrams

GRAPHICS#	DESCRIPTION
09107HR	(blank)
H03ARB	(blank)

See attached graphics following this page.