



MILITARY DATA SHEET

MNLM556-X REV 0AL

Original Creation Date: 08/02/95
Last Update Date: 08/02/95
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DUAL TIMER

Industry Part Number

LM556

NS Part Numbers

LM556J-MIL

Prime Die

LM556

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: $V_{cc} = 15V$

SYMBOL	PARAMETER	CONDITIONS	NOTES	PIN-NAME	MIN	MAX	UNIT	SUB-GROUPS
Icc	Supply Current	$V_{cc} = 5V, R_l = \text{Infinity}$				10	mA	1
						15	mA	2, 3
		$R_l = \text{Infinity}$				22	mA	1
						30	mA	2, 3
		$V_{cc} = 18V, R_l = \text{Infinity}$				26	mA	1
						35	mA	2, 3
I _l	Leakage Output High Pin 1, 13	$V_{cc} = 18V$				100	nA	1
V _{sat}	Pin 1, 13 Sat	$I_l = 15mA$				240	mV	1
						500	mV	2, 3
		$V_{cc} = 4.5V, I_l = 4.5mA$				80	mV	1
						200	mV	2, 3
V _{cont1}	Control Voltage Level	$V_{cc} = 5V$			2.9	3.8	V	1, 2, 3
V _{cont2}	Control Voltage Level				9.6	10.4	V	1, 2, 3
V _{ol1}	Output Voltage Drop (Low)	$I_{sink} = 10mA$				150	mV	1, 2, 3
V _{ol2}	Output Voltage Drop (Low)	$I_{sink} = 50mA$				500	mV	1, 2, 3
V _{ol3}	Output Voltage Drop (Low)	$I_{sink} = 100mA$				2.25	V	1, 2, 3
V _{ol4}	Output Voltage Drop (Low)	$V_{cc} = 5V, I_{sink} = 8mA$				250	mV	1, 2, 3
V _{oh1}	Output Voltage Drop (High)	$V_{cc} = 5V, I_{source} = 100mA$			3		V	1
					2.75		V	2, 3
V _{oh2}	Output Voltage Drop (High)	$I_{source} = 100mA$			13		V	1
					12.75		V	2, 3
I _{th}	Threshold Current					100	nA	1
						300	nA	2, 3
V _{trig}	Trigger Voltage				4.8	5.2	V	1, 2, 3
				1	1.45	1.9	V	1
	Trigger Current					500	nA	1, 2, 3

Electrical Characteristics

DC PARAMETERS (Continued)

(The following conditions apply to all the following parameters, unless otherwise specified.)

DC: $V_{cc} = 15V$

SYMBOL	PARAMETER	CONDITIONS	NOTES	PIN-NAME	MIN	MAX	UNIT	SUB-GROUPS
Vreset	Reset Voltage High	Vreset = 1V	2		10		V	1, 2, 3
Vreset	Reset Voltage Low				.4	1	V	1
					.18	1	V	2, 3
Reset	Reset Current					.4	mA	1
						.15	mA	2, 3
Vth	Threshold Voltage	$V_{cc} = 15V$			9.5	10.5	V	1
					9	11	V	2, 3

Note 1: Guaranteed parameter not tested.

Note 2: Limit tested go-no-go, datalog reading is device output.