

Figure 1. Functional Block Diagram of the MC03AX1456 Line Driver

**MAXIMUM RATINGS\***

Symbol	Parameter	Value	Unit
V <sub>CC</sub>	Positive Supply Voltage (Referenced to GND)	+18	V
V <sub>EE</sub>	Negative Supply Voltage (Referenced to GND)	-18	V
V <sub>IN</sub>	Input Voltage (Referenced to GND)	TBD	V
V <sub>OUT</sub>	Output Voltage (Referenced to GND)	TBD	V
I <sub>IN</sub>	Input Current	TBD	mA
I <sub>OUT</sub>	Output Current	TBD	mA
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C

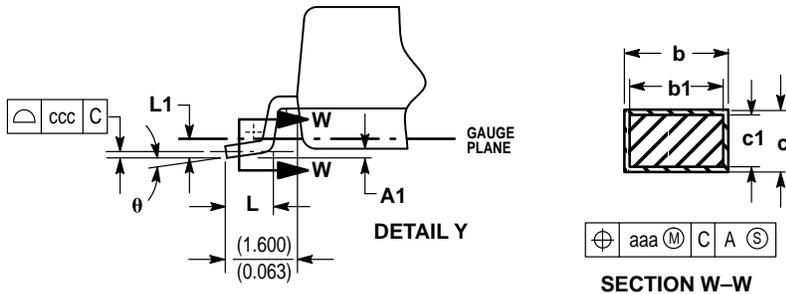
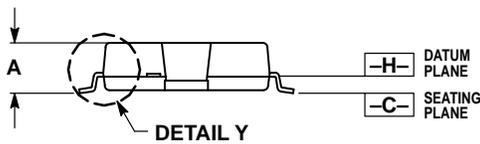
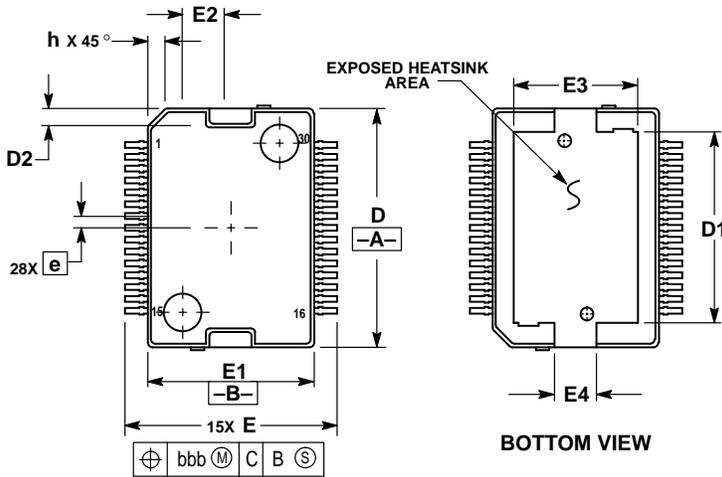
\* Maximum Ratings are those values beyond which damage to the device may occur. Functional operation should be restricted to the Recommended Operating Conditions.

**RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter	Min	Typ	Max	Unit
V <sub>CC</sub>	Positive Supply Voltage	+13.5	+15.0	+16.5	V
V <sub>-Sup</sub>	Negative Supply Voltage	-13.5	-15.0	-16.5	V
T <sub>J</sub>	Junction Temperature			150	°C

OUTLINE DIMENSIONS

HSOP PACKAGE  
CASE 979A-02  
ISSUE A



- NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
  2. CONTROLLING DIMENSION: MILLIMETER.
  3. DATUM PLANE -H- IS LOCATED AT BOTTOM OF LEAD AND IS COINCIDENT WITH THE LEAD WHERE THE LEAD EXITS THE PLASTIC BODY AT THE BOTTOM OF THE PARTING LINE.
  4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE PROTRUSION IS 0.150 (0.006) PER SIDE. DIMENSIONS D AND E1 DO INCLUDE MOLD MISMATCH AND ARE DETERMINED AT DATUM PLANE -H-.
  5. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION.
  6. DATUMS -A- AND -B- TO BE DETERMINED AT DATUM PLANE -H-.

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.100	3.450	0.122	0.136
A1	0.050	0.200	0.002	0.008
A2	3.050	3.250	0.120	0.128
D	15.800	16.000	0.622	0.630
D1	12.270	12.470	0.483	0.491
D2	0.900	1.100	0.035	0.043
E	13.950	14.450	0.549	0.569
E1	10.900	11.100	0.429	0.437
E2	2.500	2.700	0.098	0.106
E3	7.000	7.200	0.276	0.284
E4	2.700	2.900	0.106	0.114
L	0.840	1.100	0.033	0.043
L1	0.350 BSC		0.014 BSC	
b	0.350	0.475	0.014	0.019
b1	0.350	0.432	0.014	0.017
c	0.230	0.320	0.009	0.013
c1	0.230	0.280	0.009	0.011
e	0.800 BSC		0.031 BSC	
h	1.100		0.043	
θ	0°	8°	0°	8°
aaa	0.200		0.008	
bbb	0.200		0.008	
ccc	0.100		0.004	

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