ON Semiconductor

Is Now



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BCD-to-Seven Segment Latch/Decoder/Driver

The MC14511B BCD–to–seven segment latch/decoder/driver is constructed with complementary MOS (CMOS) enhancement mode devices and NPN bipolar output drivers in a single monolithic structure. The circuit provides the functions of a 4–bit storage latch, an 8421 BCD–to–seven segment decoder, and an output drive capability. Lamp test ($\overline{\rm LT}$), blanking ($\overline{\rm BI}$), and latch enable (LE) inputs are used to test the display, to turn–off or pulse modulate the brightness of the display, and to store a BCD code, respectively. It can be used with seven–segment light–emitting diodes (LED), incandescent, fluorescent, gas discharge, or liquid crystal readouts either directly or indirectly.

Applications include instrument (e.g., counter, DVM, etc.) display driver, computer/calculator display driver, cockpit display driver, and various clock, watch, and timer uses.

Features

- Low Logic Circuit Power Dissipation
- High-Current Sourcing Outputs (Up to 25 mA)
- Latch Storage of Code
- Blanking Input
- Lamp Test Provision
- Readout Blanking on all Illegal Input Combinations
- Lamp Intensity Modulation Capability
- Time Share (Multiplexing) Facility
- Supply Voltage Range = 3.0 V to 18 V
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load, or Two HTL Loads Over the Rated Temperature Range
- Chip Complexity: 216 FETs or 54 Equivalent Gates
- Triple Diode Protection on all Inputs
- NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable
- These Devices are Pb-Free and are RoHS Compliant

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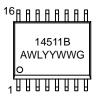


SOIC-16 D SUFFIX CASE 751B SOEIAJ-16 F SUFFIX CASE 966

SO-16 WB DW SUFFIX CASE 751G

MARKING DIAGRAMS





SO-16 WB

A = Assembly Location

WL, L = Wafer Lot YY, Y = Year WW, W = Work Week G = Pb-Free Package

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 7 of this data sheet.

MAXIMUM RATINGS (Voltages Referenced to V_{SS}) (Note 1)

Symbol	Parameter	Value	Unit
V_{DD}	DC Supply Voltage Range	-0.5 to +18.0	V
V _{in}	Input Voltage Range, All Inputs	-0.5 to V _{DD} + 0.5	V
I	DC Current Drain per Input Pin	10	mA
P _D	Power Dissipation, per Package (Note 2)	500	mW
T _A	Operating Temperature Range	-55 to +125	°C
T _{stg}	Storage Temperature Range	-65 to +150	°C
I _{OHmax}	Maximum Output Drive Current (Source) per Output	25	mA
P _{OHmax}	Maximum Continuous Output Power (Source) per Output (Note 3)	50	mA

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

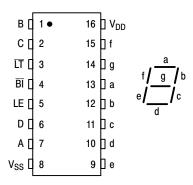
- 1. Maximum Ratings are those values beyond which damage to the device may occur.
- 2. Temperature Derating: "D/DW" Packages: -7.0 mW/°C From 65°C to 125°C
- 3. $P_{OHmax} = I_{OH} (V_{DD} V_{OH})$

This device contains protection circuitry to protect the inputs against damage due to high static voltages or electric fields. However, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high–impedance circuit. A destructive high current mode may occur if V_{in} and V_{out} are not constrained to the range $V_{SS} \! \leq \! (V_{in} \text{ or } V_{out}) \! \leq \! V_{DD}.$

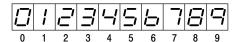
Due to the sourcing capability of this circuit, damage can occur to the device if V_{DD} is applied, and the outputs are shorted to V_{SS} and are at a logical 1 (See Maximum Ratings).

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

PIN ASSIGNMENT



DISPLAY



TRUTH TABLE

Inputs O						Ou	tputs	3						
LE	BI	LT	D	С	В	Α	а	b	С	d	е	f	g	Display
Х	Х	0	Χ	Χ	Χ	Χ	1	1	1	1	1	1	1	8
Х	0	1	Χ	Χ	Χ	Χ	0	0	0	0	0	0	0	Blank
0 0 0 0	1 1 1	1 1 1	0 0 0	0 0 0 0	0 0 1 1	0 1 0 1	1 0 1 1	1 1 1	1 1 0 1	1 0 1 1	1 0 1 0	1 0 0 0	0 0 1 1	0 1 2 3
0 0 0 0	1 1 1	1 1 1	0 0 0 0	1 1 1	0 0 1 1	0 1 0 1	0 1 0 1	1 0 0 1	1 1 1 1	0 1 1 0	0 0 1 0	1 1 1 0	1 1 1 0	4 5 6 7
0 0 0 0	1 1 1	1 1 1	1 1 1	0 0 0 0	0 0 1 1	0 1 0 1	1 1 0 0	1 1 0 0	1 1 0 0	1 0 0 0	1 0 0 0	1 1 0 0	1 1 0 0	8 9 Blank Blank
0 0 0	1 1 1	1 1 1	1 1 1	1 1 1	0 0 1 1	0 1 0 1	0 0 0 0	Blank Blank Blank Blank						
1	1	1	Χ	Χ	Χ	Χ				*				*

X = Don't Care

^{*} Depends upon the BCD code previously applied when LE = 0

ELECTRICAL CHARACTERISTICS (Voltages Referenced to V_{SS})

				- 5	5°C	25°C		125°C			
Characteristic		Symbol	V _{DD} Vdc	Min	Max	Min	Typ (Note 4)	Max	Min	Max	Unit
Output Voltage V _{in} = V _{DD} or 0	"0" Level	V _{OL}	5.0 10 15	- - -	0.05 0.05 0.05	- - -	0 0 0	0.05 0.05 0.05	- - -	0.05 0.05 0.05	Vdc
V _{in} = 0 or V _{DD}	"1" Level	V _{OH}	5.0 10 15	4.1 9.1 14.1	- - -	4.1 9.1 14.1	4.57 9.58 14.59	- - -	4.1 9.1 14.1	- - -	Vdc
Input Voltage # (V _O = 3.8 or 0.5 Vdc) (V _O = 8.8 or 1.0 Vdc) (V _O = 13.8 or 1.5 Vdc)	"0" Level	V _{IL}	5.0 10 15	- - -	1.5 3.0 4.0	- - -	2.25 4.50 6.75	1.5 3.0 4.0	- - -	1.5 3.0 4.0	Vdc
$(V_O = 0.5 \text{ or } 3.8 \text{ Vdc})$ $(V_O = 1.0 \text{ or } 8.8 \text{ Vdc})$ $(V_O = 1.5 \text{ or } 13.8 \text{ Vdc})$	"1" Level	V _{IH}	5.0 10 15	3.5 7.0 11	- - -	3.5 7.0 11	2.75 5.50 8.25	- - -	3.5 7.0 11	- - -	Vdc
Output Drive Voltage (I _{OH} = 0 mA) (I _{OH} = 5.0 mA) (I _{OH} = 10 mA) (I _{OH} = 15 mA) (I _{OH} = 20 mA) (I _{OH} = 25 mA)	Source	V _{OH}	5.0	4.1 - 3.9 - 3.4 -	- - - -	4.1 - 3.9 - 3.4 -	4.57 4.24 4.12 3.94 3.70 3.54		4.1 - 3.5 - 3.0 -		Vdc
(I _{OH} = 0 mA) (I _{OH} = 5.0 mA) (I _{OH} = 10 mA) (I _{OH} = 15 mA) (I _{OH} = 20 mA) (I _{OH} = 25 mA)			10	9.1 - 9.0 - 8.6 -	- - - - -	9.1 - 9.0 - 8.6 -	9.58 9.26 9.17 9.04 8.90 8.70	- - - - -	9.1 - 8.6 - 8.2 -	- - - - -	Vdc
(I _{OH} = 0 mA) (I _{OH} = 5.0 mA) (I _{OH} = 10 mA) (I _{OH} = 15 mA) (I _{OH} = 20 mA) (I _{OH} = 25 mA)			15	14.1 - 14 - 13.6 -	- - - - -	14.1 - 14 - 13.6 -	14.59 14.27 14.18 14.07 13.95 13.70	- - - - -	14.1 - 13.6 - 13.2	- - - - -	Vdc
Output Drive Current (V _{OL} = 0.4 V) (V _{OL} = 0.5 V) (V _{OL} = 1.5 V)	Sink	I _{OL}	5.0 10 15	0.64 1.6 4.2	_ _ _	0.51 1.3 3.4	0.88 2.25 8.8	- - -	0.36 0.9 2.4	- - -	mAdc
Input Current		I _{in}	15	-	± 0.1	-	±0.00001	± 0.1	-	± 1.0	μAdc
Input Capacitance		C _{in}	ı	-	_	-	5.0	7.5	-	-	pF
Quiescent Current (Per Package) $V_{in} = 0$ or $I_{out} = 0 \mu A$	or V _{DD} ,	I _{DD}	5.0 10 15	1 1 1	5.0 10 20	- - -	0.005 0.010 0.015	5.0 10 20	- - -	150 300 600	μAdc
Total Supply Current (Note (Dynamic plus Quiesce Per Package) (C _L = 50 pF on all outpu buffers switching)	nt,	I _T	5.0 10 15			$I_T = (3)$	1.9 μΑ/kHz) f 3.8 μΑ/kHz) f 5.7 μΑ/kHz) f	+ I _{DD}			μAdc

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

4. Noise immunity specified for worst–case input combination.

$$I_T(C_L) = I_T(50 \text{ pF}) + 3.5 \times 10^{-3} (C_L - 50) \text{ V}_{DD}f$$

where: I_T is in μA (per package), C_L in pF, V_{DD} in Vdc, and f in kHz is input frequency.

^{4.} Noise immunity specified for worst-case input combination. Noise Margin for both "1" and "0" level =

1.0 Vdc min @ V_{DD} = 5.0 Vdc

2.0 Vdc min @ V_{DD} = 10 Vdc

2.5 Vdc min @ V_{DD} = 15 Vdc
5. The formulas given are for the typical characteristics only at 25°C.
6. To calculate total supply current at loads other than 50 pF:

SWITCHING CHARACTERISTICS (Note 7) (C $_L$ = 50 pF, T_A = 25 $^{\circ}C)$

		V_{DD}				
Characteristic	Symbol	Vdc	Min	Тур	Max	Unit
Output Rise Time $t_{TLH} = (0.40 \text{ ns/pF}) \text{ C}_{L} + 20 \text{ ns} \\ t_{TLH} = (0.25 \text{ ns/pF}) \text{ C}_{L} + 17.5 \text{ ns} \\ t_{TLH} = (0.20 \text{ ns/pF}) \text{ C}_{L} + 15 \text{ ns}$	t _{TLH}	5.0 10 15	- - -	40 30 25	80 60 50	ns
Output Fall Time $t_{THL} = (1.5 \text{ ns/pF}) C_L + 50 \text{ ns}$ $t_{THL} = (0.75 \text{ ns/pF}) C_L + 37.5 \text{ ns}$ $t_{THL} = (0.55 \text{ ns/pF}) C_L + 37.5 \text{ ns}$	t _{THL}	5.0 10 15	- - -	125 75 65	250 150 130	ns
Data Propagation Delay Time $t_{PLH} = (0.40 \text{ ns/pF}) \text{ C}_L + 620 \text{ ns}$ $t_{PLH} = (0.25 \text{ ns/pF}) \text{ C}_L + 237.5 \text{ ns}$ $t_{PLH} = (0.20 \text{ ns/pF}) \text{ C}_L + 165 \text{ ns}$	t _{PLH}	5.0 10 15	- - -	640 250 175	1280 500 350	ns
t_{PHL} = (1.3 ns/pF) C_L + 655 ns t_{PHL} = (0.60 ns/pF) C_L + 260 ns t_{PHL} = (0.35 ns/pF) C_L + 182.5 ns	t _{PHL}	5.0 10 15	- - -	720 290 200	1440 580 400	
$\begin{aligned} & \text{Blank Propagation Delay Time} \\ & \text{t}_{\text{PLH}} = (0.30 \text{ ns/pF}) \text{ C}_{\text{L}} + 585 \text{ ns} \\ & \text{t}_{\text{PLH}} = (0.25 \text{ ns/pF}) \text{ C}_{\text{L}} + 187.5 \text{ ns} \\ & \text{t}_{\text{PLH}} = (0.15 \text{ ns/pF}) \text{ C}_{\text{L}} + 142.5 \text{ ns} \end{aligned}$	t _{PLH}	5.0 10 15	- - -	600 200 150	750 300 220	ns
$t_{PHL} = (0.85 \text{ ns/pF}) \text{ C}_L + 442.5 \text{ ns}$ $t_{PHL} = (0.45 \text{ ns/pF}) \text{ C}_L + 177.5 \text{ ns}$ $t_{PHL} = (0.35 \text{ ns/pF}) \text{ C}_L + 142.5 \text{ ns}$	t _{PHL}	5.0 10 15	- - -	485 200 160	970 400 320	
$\label{eq:local_local_local_local_local_local} \overline{Lamp Test} \ Propagation \ Delay \ Time \\ t_{PLH} = (0.45 \ ns/pF) \ C_L + 290.5 \ ns \\ t_{PLH} = (0.25 \ ns/pF) \ C_L + 112.5 \ ns \\ t_{PLH} = (0.20 \ ns/pF) \ C_L + 80 \ ns \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	t _{PLH}	5.0 10 15	- - -	313 125 90	625 250 180	ns
t_{PHL} = (1.3 ns/pF) C_L + 248 ns t_{PHL} = (0.45 ns/pF) C_L + 102.5 ns t_{PHL} = (0.35 ns/pF) C_L + 72.5 ns	t _{PHL}	5.0 10 15	- - -	313 125 90	625 250 180	
Setup Time	t _{su}	5.0 10 15	100 40 30	- - -	- - -	ns
Hold Time	t _h	5.0 10 15	60 40 30	- - -	- - -	ns
Latch Enable Pulse Width	t _{WL}	5.0 10 15	520 220 130	260 110 65	- - -	ns

^{7.} The formulas given are for the typical characteristics only.

Input LE low, and Inputs D, \overline{BI} and \overline{LT} high. f in respect to a system clock. All outputs connected to respective C_L loads.

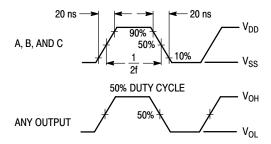
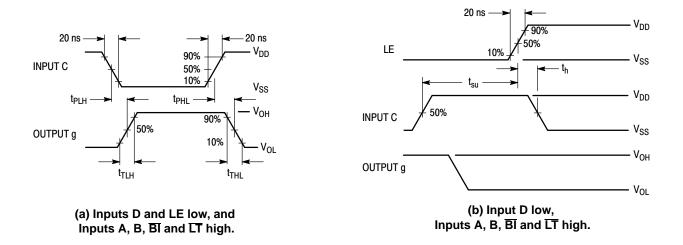
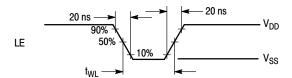


Figure 1. Dynamic Power Dissipation Signal Waveforms



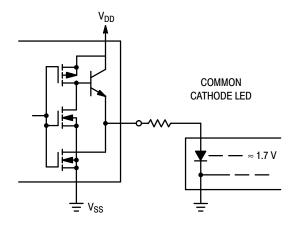


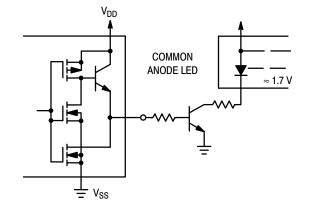
(c) Data DCBA strobed into latches.

Figure 2. Dynamic Signal Waveforms

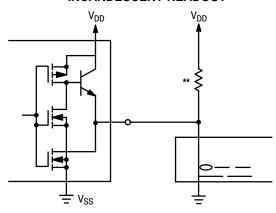
CONNECTIONS TO VARIOUS DISPLAY READOUTS

LIGHT EMITTING DIODE (LED) READOUT

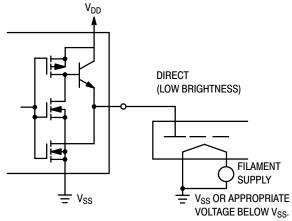




INCANDESCENT READOUT

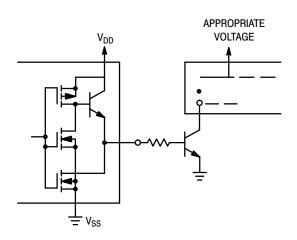


FLUORESCENT READOUT



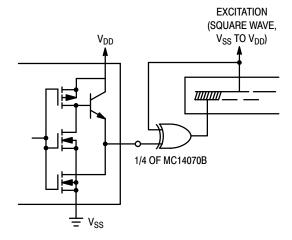
(CAUTION: Maximum working voltage = 18.0 V)

GAS DISCHARGE READOUT



** A filament pre-warm resistor is recommended to reduce filament thermal shock and increase the effective cold resistance of the filament.

LIQUID CRYSTAL (LCD) READOUT



Direct DC drive of LCD's not recommended for life of LCD readouts.

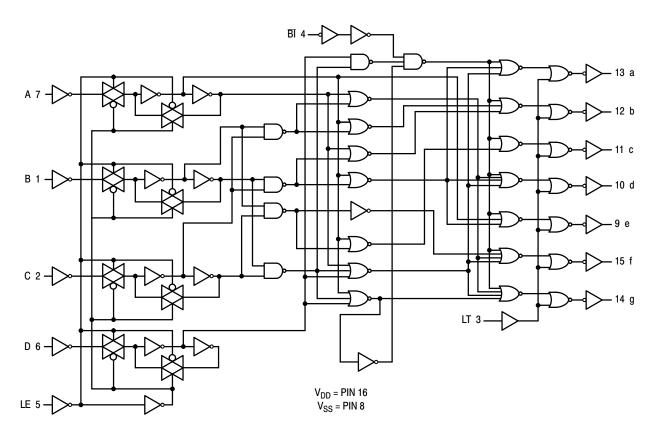


Figure 3. Logic Diagram

ORDERING INFORMATION

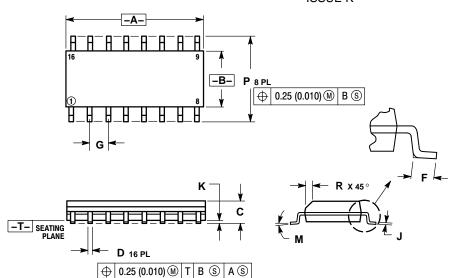
Device	Package	Shipping [†]
MC14511BDG	SOIC-16 (Pb-Free)	48 Units / Rail
MC14511BDR2G	SOIC-16 (Pb-Free)	2500 / Tape & Reel
MC14511BDWR2G	SO-16 WB (Pb-Free)	1000 / Tape & Reel
NLV14511BDWR2G*	SO-16 WB (Pb-Free)	1000 / Tape & Reel
MC14511BFG	SOEIAJ-16 (Pb-Free)	50 Units / Rail
MC14511BFELG	SOEIAJ-16 (Pb-Free)	2000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.
*NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC–Q100 Qualified and PPAP

^{*}NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC–Q100 Qualified and PPAP Capable.

PACKAGE DIMENSIONS

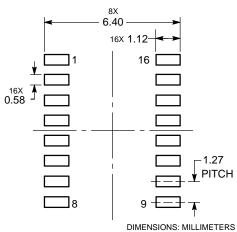
SOIC-16 PLASTIC SOIC PACKAGE CASE 751B-05 ISSUE K



- NOTES:
 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: MILLIMETER.
 3. DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.
 4. MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE.
 5. DIMENSION D DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION. SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE D DIMENSION AT MAXIMUM MATERIAL CONDITION.

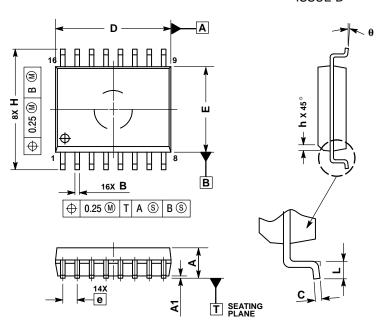
	MILLIN	IETERS	INCHES		
DIM	MIN	MAX	MIN	MAX	
Α	9.80	10.00	0.386	0.393	
В	3.80	4.00	0.150	0.157	
C	1.35	1.75	0.054	0.068	
ם	0.35	0.49	0.014	0.019	
F	0.40	1.25	0.016	0.049	
G	1.27	BSC	0.050) BSC	
7	0.19	0.25	0.008	0.009	
K	0.10	0.25	0.004	0.009	
M	0°	7°	0°	7°	
P	5.80	6.20	0.229	0.244	
R	0.25	0.50	0.010	0.019	

SOLDERING FOOTPRINT



PACKAGE DIMENSIONS

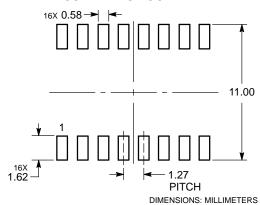
SOIC-16 WB CASE 751G-03 ISSUE D



- NOTES:
 1. DIMENSIONS ARE IN MILLIMETERS.
 2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994.
 3. DIMENSIONS D AND E DO NOT INLCUDE MOLD PROTRUSION.
 4. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.
 5. DIMENSION B DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF THE B DIMENSION AT MAXIMUM MATERIAL CONDITION.

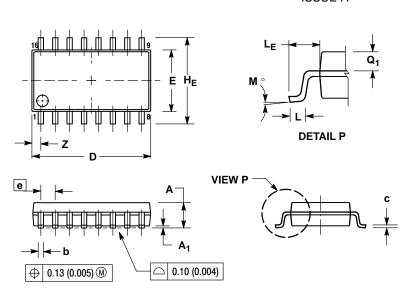
	MILLIMETERS					
DIM	MIN	MAX				
Α	2.35	2.65				
A1	0.10	0.25				
В	0.35	0.49				
С	0.23	0.32				
D	10.15	10.45				
E	7.40	7.60				
е	1.27	BSC				
Н	10.05	10.55				
h	0.25	0.75				
L	0.50	0.90				
q	0 °	7 °				

SOLDERING FOOTPRINT



PACKAGE DIMENSIONS

SOEIAJ-16 **CASE 966** ISSUE A



NOTES:

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- 2 CONTROLLING DIMENSION: MILLIMETER.
 3 DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS AND ARE MEASURED AT THE PARTING LINE. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
- TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
- THE LEAD WIDTH DIMENSION (b) DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION.

 DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSIONS AND ADJACENT LEAD TO BE 0.46 (0.018).

	MILLIN	IETERS	INCHES			
DIM	MIN	MAX	MIN	MAX		
Α		2.05		0.081		
A ₁	0.05	0.20	0.002	0.008		
b	0.35	0.50	0.014	0.020		
С	0.10	0.20	0.007	0.011		
D	9.90	10.50	0.390	0.413		
E	5.10	5.45	0.201	0.215		
е	1.27	BSC	0.050 BSC			
HE	7.40	8.20	0.291	0.323		
L	0.50	0.85	0.020	0.033		
LE	1.10	1.50	0.043	0.059		
M	0 °	10°	0°	10°		
Q ₁	0.70	0.90	0.028	0.035		
Z		0.78		0.031		

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