# **Quad Analog Switch/Quad Multiplexer**

The MC14066B consists of four independent switches capable of controlling either digital or analog signals. This quad bilateral switch is useful in signal gating, chopper, modulator, demodulator and CMOS logic implementation.

The MC14066B is designed to be pin-for-pin compatible with the MC14016B, but has much lower ON resistance. Input voltage swings as large as the full supply voltage can be controlled via each independent control input.

### **Features**

- Triple Diode Protection on All Control Inputs
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Linearized Transfer Characteristics
- Low Noise 12 nV/ $\sqrt{\text{Cycle}}$ , f  $\geq$  1.0 kHz typical
- Pin-for-Pin Replacement for CD4016, CD4016, MC14016B
- For Lower Ron, Use The HC4066 High-Speed CMOS Device
- These Devices are Pb-Free and are RoHS Compliant
- NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable

### MAXIMUM RATINGS (Voltages Referenced to V<sub>SS</sub>)

Symbol	Parameter	Value	Unit
V <sub>DD</sub>	DC Supply Voltage Range	-0.5 to +18.0	V
V <sub>in</sub> , V <sub>out</sub>	Input or Output Voltage Range (DC or Transient)	-0.5 to V <sub>DD</sub> + 0.5	V
l <sub>in</sub>	Input Current (DC or Transient) per Control Pin	±10	mA
I <sub>SW</sub>	Switch Through Current	±25	mA
P <sub>D</sub>	Power Dissipation, per Package (Note 1)	500	mW
T <sub>A</sub>	Ambient Temperature Range	-55 to +125	°C
T <sub>stg</sub>	Storage Temperature Range	-65 to +150	°C
TL	Lead Temperature (8-Second Soldering)	260	°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Temperature Derating:

Plastic "P and D/DW" Packages: - 7.0 mW/°C From 65°C To 125°C

This device contains protection circuitry to guard against damage due to high static voltages or electric fields. However, precautions must be taken to avoid applications of any voltage higher than maximum rated voltages to this high–impedance circuit. For proper operation,  $V_{in}$  and  $V_{out}$  should be constrained to the range  $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}.$ 

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



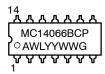
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### MARKING DIAGRAMS



PDIP-14 P SUFFIX CASE 646



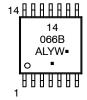


SOIC-14 D SUFFIX CASE 751A





TSSOP-14 DT SUFFIX CASE 948G





SOEIAJ-14 F SUFFIX CASE 965



A = Assembly Location

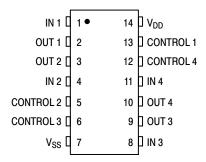
WL, L = Wafer Lot
 YY, Y = Year
 WW, W = Work Week
 G or = Pb-Free Package

(Note: Microdot may be in either location)

### ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 5 of this data sheet.

### **PIN ASSIGNMENT**



# CONTROL 2 0 0UT 2 CONTROL 3 0 9 OUT 3 IN 3 0 9 OUT 3 CONTROL 4 12 10

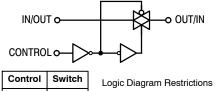
IN 4 O

OUT 4

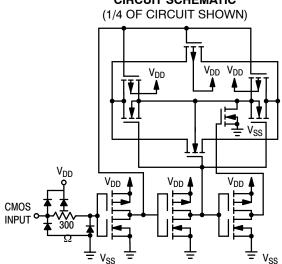
 $V_{DD} = PIN 14$  $V_{SS} = PIN 7$ 

### LOGIC DIAGRAM AND TRUTH TABLE

(1/4 OF DEVICE SHOWN)



### **CIRCUIT SCHEMATIC**



### **ELECTRICAL CHARACTERISTICS**

				– 55°C			25°C		125°C		
Characteristic	Symbol	$V_{DD}$	Test Conditions	Min	Max	Min	Typ <sup>(2)</sup>	Max	Min	Max	Unit
SUPPLY REQUIREMENTS	Voltages R	eferen	ced to V <sub>EE</sub> )		•						
Power Supply Voltage Range	V <sub>DD</sub>			3.0	18	3.0	-	18	3.0	18	V
Quiescent Current Per Package	I <sub>DD</sub>	5.0 10 15	$\begin{split} & \text{Control Inputs:} \\ & V_{in} = V_{SS} \text{ or } V_{DD}, \\ & \text{Switch I/O: } V_{SS} \leq V_{I/O} \\ & \leq V_{DD}, \text{ and} \\ & \Delta V_{switch} \leq 500 \text{ mV}  ^{(3)} \end{split}$	- - -	0.25 0.5 1.0	- - -	0.005 0.010 0.015	0.25 0.5 1.0	- - -	7.5 15 30	μΑ
Total Supply Current (Dynamic Plus Quiescent, Per Package	I <sub>D(AV)</sub>	5.0 10 15	T <sub>A</sub> = 25°C only The channel component, (V <sub>in</sub> – V <sub>out</sub> )/R <sub>on</sub> , is not included.)		Typica	(0.2	7 μΑ/kHz) f 0 μΑ/kHz) f 6 μΑ/kHz) f	+ I <sub>DD</sub>			μΑ
CONTROL INPUTS (Voltage	es Referenc	ed to V	'ss)								
Low-Level Input Voltage	V <sub>IL</sub>	5.0 10 15	R <sub>on</sub> = per spec, I <sub>off</sub> = per spec	- - -	1.5 3.0 4.0	- - -	2.25 4.50 6.75	1.5 3.0 4.0	- - -	1.5 3.0 4.0	V
High-Level Input Voltage	V <sub>IH</sub>	5.0 10 15	R <sub>on</sub> = per spec, I <sub>off</sub> = per spec	3.5 7.0 11	- - -	3.5 7.0 11	2.75 5.50 8.25	- - -	3.5 7.0 11	- - -	V
Input Leakage Current	I <sub>in</sub>	15	V <sub>in</sub> = 0 or V <sub>DD</sub>	_	± 0.1	_	±0.00001	± 0.1	_	± 1.0	μΑ
Input Capacitance	C <sub>in</sub>	-		-	-	-	5.0	7.5	_	-	pF
SWITCHES IN AND OUT (V	oltages Ref	erence	d to V <sub>SS</sub> )								
Recommended Peak-to- Peak Voltage Into or Out of the Switch	V <sub>I/O</sub>	-	Channel On or Off	0	V <sub>DD</sub>	0	-	V <sub>DD</sub>	0	V <sub>DD</sub>	V <sub>p-p</sub>
Recommended Static or Dynamic Voltage Across the Switch (3) (Figure 1)	$\Delta V_{switch}$	-	Channel On	0	600	0	-	600	0	300	mV
Output Offset Voltage	V <sub>OO</sub>	_	V <sub>in</sub> = 0 V, No Load	-	_	-	10	-	_	-	μV
ON Resistance	R <sub>on</sub>	5.0 10 15	$\begin{array}{l} \Delta V_{Switch} \leq 500 \text{ mV} \ ^{(3)}, \\ V_{in} = V_{IL} \text{ or } V_{IH} \\ \text{ (Control), and } V_{in} = \\ 0 \text{ to } V_{DD} \text{ (Switch)} \end{array}$	- - -	800 400 220	- - -	250 120 80	1050 500 280	- - -	1200 520 300	Ω
ΔON Resistance Between Any Two Channels in the Same Package	$\Delta R_{on}$	5.0 10 15		- - -	70 50 45	- - -	25 10 10	70 50 45	- - -	135 95 65	Ω
Off-Channel Leakage Current (Figure 6)	l <sub>off</sub>	15	V <sub>in</sub> = V <sub>IL</sub> or V <sub>IH</sub> (Control) Channel to Channel or Any One Channel	-	±100	-	± 0.05	±100	-	±1000	nA
Capacitance, Switch I/O	C <sub>I/O</sub>	_	Switch Off	-	-	_	10	15	_	-	рF
Capacitance, Feedthrough (Switch Off)	C <sub>I/O</sub>	_ _		-	-	_	0.47	-	-	-	pF

Data labeled "Typ" is not to be used for design purposes, but is intended as an indication of the IC's potential performance.
 For voltage drops across the switch (ΔV<sub>switch</sub>) > 600 mV ( > 300 mV at high temperature), excessive V<sub>DD</sub> current may be drawn; i.e. the current out of the switch may contain both V<sub>DD</sub> and switch input components. The reliability of the device will be unaffected unless the Maximum Ratings are exceeded. (See first page of this data sheet.)

### **ELECTRICAL CHARACTERISTICS** (Note 4) ( $C_L = 50 \text{ pF}$ , $T_A = 25^{\circ}\text{C}$ unless otherwise noted.)

Oh a sa a da si a tia	0	V <sub>DD</sub> Vdc	B.01	T (5)		1114
Characteristic	Symbol	vac	Min	Typ <sup>(5)</sup>	Max	Unit
Propagation Delay Times $V_{SS} = 0 \text{ Vdc}$ Input to Output (R <sub>L</sub> = 10 k $\Omega$ )	t <sub>PLH</sub> , t <sub>PHL</sub>					ns
$t_{PLH}$ , $t_{PHL} = (0.17 \text{ ns/pF}) C_L + 15.5 \text{ ns}$		5.0	-	20	40	
$t_{PLH}$ , $t_{PHL} = (0.08 \text{ ns/pF}) C_L + 6.0 \text{ ns}$		10	_	10	20	
$t_{PLH}$ , $t_{PHL}$ = (0.06 ns/pF) $C_L$ + 4.0 ns		15	-	7.0	15	
Control to Output ( $R_L = 1 \text{ k}\Omega$ ) (Figure 2)	t <sub>PHZ</sub>					ns
Output "1" to High Impedance		5.0	-	40	80	
		10	-	35	70	
		15	-	30	60	
Output "0" to High Impedance	t <sub>PLZ</sub>	5.0	-	40	80	ns
		10	-	35	70	
		15	-	30	60	
High Impedance to Output "1"	t <sub>PZH</sub>	5.0	-	60	120	ns
		10	-	20	40	
		15	-	15	30	
High Impedance to Output "0"	t <sub>PZL</sub>	5.0	-	60	120	ns
		10	-	20	40	
		15	-	15	30	
Second Harmonic Distortion $V_{SS} = -5$ Vdc $(V_{in} = 1.77$ Vdc, RMS Centered @ 0.0 Vdc, $R_L = 10$ k $\Omega$ , $f = 1.0$ kHz)	-	5.0	-	0.1	-	%
Bandwidth (Switch ON) (Figure 3) $V_{SS} = -5 \text{ Vdc}$ $(R_L = 1 \text{ k}\Omega, 20 \text{ Log } (V_{out}/V_{in}) = -3 \text{ dB, } C_L = 50 \text{ pF,}$ $V_{in} = 5 \text{ V}_{p-p})$	-	5.0	-	65	-	MHz
$\label{eq:VSS}                                   $	-	5.0	-	<b>– 50</b>	-	dB
Channel Separation (Figure 4) $ \begin{array}{ll} \text{V}_{SS} = - \text{ 5 Vdc} \\ \text{(V}_{in} = \text{ 5 V}_{p-p}, \text{ R}_L = \text{ 1 k}\Omega, f_{in} = \text{ 8.0 MHz)} \\ \text{(Switch A ON, Switch B OFF)} \end{array} $	-	5.0	-	- 50	-	dB
Crosstalk, Control Input to Signal Output (Figure 5) $V_{SS} = -5 \text{ Vdc} \\ (R_1 = 1 \text{ k}\Omega, R_L = 10 \text{ k}\Omega, \text{ Control } t_{TLH} = t_{THL} = 20 \text{ ns})$	-	5.0	-	300	-	mV <sub>p-p</sub>

<sup>4.</sup> The formulas given are for the typical characteristics only at 25°C.
5. Data labelled "Typ" is not to be used for design purposes but is intended as an indication of the IC's potential performance.

### **ORDERING INFORMATION**

Device	Package	Shipping <sup>†</sup>		
MC14066BCPG	PDIP-14 (Pb-Free)	500 Units / Rail		
MC14066BDG	SOIC-14	55 H % (D %		
NLV14066BDG*	- (Pb-Free)	55 Units / Rail		
MC14066BDR2G	SOIC-14	2522 / T		
NLV14066BDR2G*	- (Pb-Free)	2500 / Tape & Reel		
MC14066BDTR2G	TSSOP-14	0700 /T 0 D /		
NLV14066BDTR2G*	- (Pb-Free)	2500 / Tape & Reel		
MC14066BFELG	SOEIAJ-14 (Pb-Free)	2000 / Tape & Reel		

<sup>†</sup>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

Capable.

### **TEST CIRCUITS**

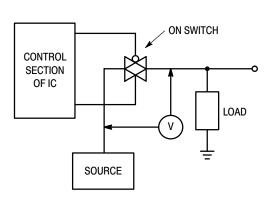


Figure 1.  $\Delta V$  Across Switch

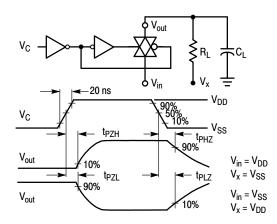


Figure 2. Turn-On Delay Time Test Circuit and Waveforms

 $V_C = V_{DD}$  FOR BANDWIDTH TEST  $V_C = V_{SS}$  FOR FEEDTHROUGH TEST

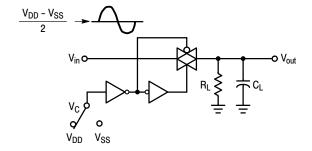


Figure 3. Bandwidth and Feedthrough Attenuation

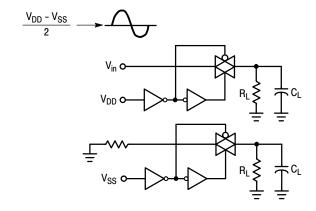


Figure 4. Channel Separation

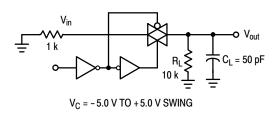


Figure 5. Crosstalk, Control to Output

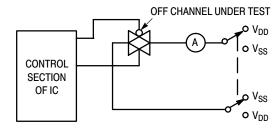


Figure 6. Off Channel Leakage

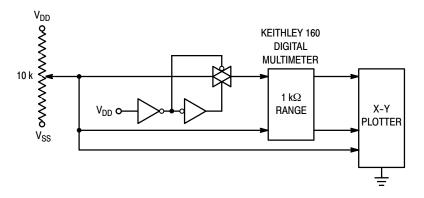


Figure 7. Channel Resistance (R<sub>ON</sub>) Test Circuit

### TYPICAL RESISTANCE CHARACTERISTICS

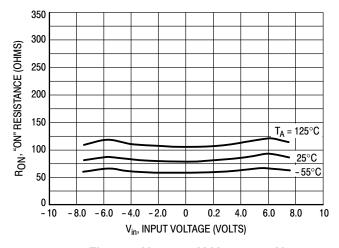


Figure 8.  $V_{DD}$  = 7.5 V,  $V_{SS}$  = - 7.5 V

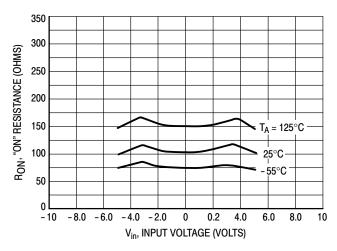


Figure 9.  $V_{DD}$  = 5.0 V,  $V_{SS}$  = - 5.0 V

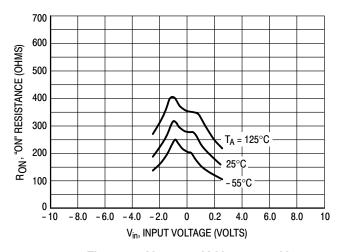


Figure 10.  $V_{DD}$  = 2.5 V,  $V_{SS}$  = - 2.5 V

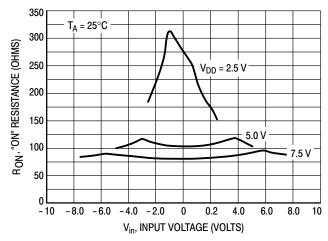


Figure 11. Comparison at 25°C,  $V_{DD} = -V_{SS}$ 

### **APPLICATIONS INFORMATION**

Figure A illustrates use of the Analog Switch. The 0-to-5 V digital control signal is used to directly control a 5 V peak-to-peak analog signal.

The digital control logic levels are determined by  $V_{DD}$  and  $V_{SS}$ . The  $V_{DD}$  voltage is the logic high voltage, the  $V_{SS}$  voltage is logic low. For the example,  $V_{DD}$  = + 5 V = logic high at the control inputs;  $V_{SS}$  = GND = 0 V = logic low.

The maximum analog signal level is determined by  $V_{DD}$  and  $V_{SS}$ . The analog voltage must not swing higher than  $V_{DD}$  or lower than  $V_{SS}$ .

The example shows a 5 V peak-to-peak signal which allows no margin at either peak. If voltage transients above

 $V_{DD}$  and/or below  $V_{SS}$  are anticipated on the analog channels, external diodes  $(D_x)$  are recommended as shown in Figure B. These diodes should be small signal types able to absorb the maximum anticipated current surges during clipping.

The *absolute* maximum potential difference between  $V_{DD}$  and  $V_{SS}$  is 18 V. Most parameters are specified up to 15 V which is the *recommended* maximum difference between  $V_{DD}$  and  $V_{SS}$ .

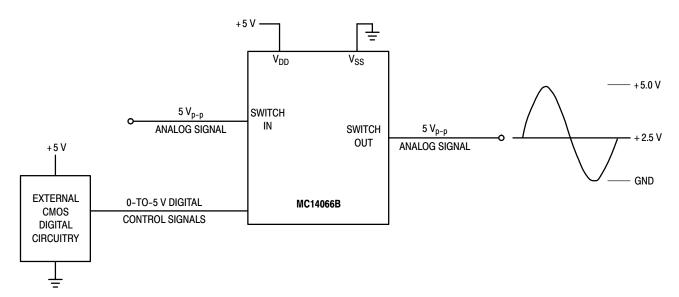


Figure A. Application Example

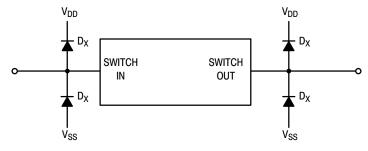
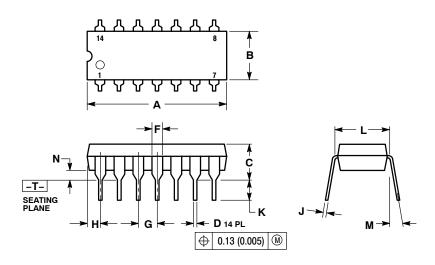


Figure B. External Germanium or Schottky Clipping Diodes

### **PACKAGE DIMENSIONS**

PDIP-14 CASE 646-06 **ISSUE P** 

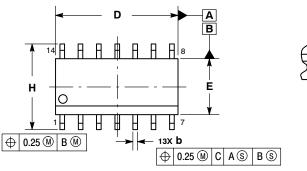


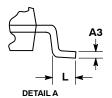
- NOTES:
  1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
  2. CONTROLLING DIMENSION: INCH.
  3. DIMENSION L TO CENTER OF LEADS WHEN FORMED PARALLEL.
  4. DIMENSION B DOES NOT INCLUDE MOLD FLASH.
  5. ROUNDED CORNERS OPTIONAL.

	INC	HES	MILLIN	IETERS		
DIM	MIN	MAX	MIN	MAX		
Α	0.715	0.770	18.16	19.56		
В	0.240	0.260	6.10	6.60		
С	0.145	0.185	3.69	4.69		
D	0.015	0.021	0.38	0.53		
F	0.040	0.070	1.02	1.78		
G	0.100	BSC	2.54	4 BSC		
Н	0.052	0.095	1.32	2.41		
J	0.008	0.015	0.20	0.38		
K	0.115	0.135	2.92	3.43		
L	0.290	0.310	7.37	7.87		
M		10 °		10 °		
N	0.015	0.039	0.38	1.01		

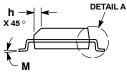
### **PACKAGE DIMENSIONS**

### SOIC-14 NB CASE 751A-03 ISSUE K









- NOTES:

  1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.

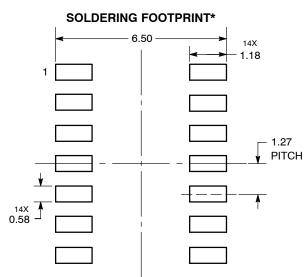
  2. CONTROLLING DIMENSION: MILLIMETERS.

  3. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF AT MAXIMUM MATERIAL CONDITION.

  4. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.

  5. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.

	MILLIN	IETERS	INC	HES
DIM	MIN	MAX	MIN	MAX
Α	1.35	1.75	0.054	0.068
A1	0.10	0.25	0.004	0.010
А3	0.19	0.25	0.008	0.010
b	0.35	0.49	0.014	0.019
D	8.55	8.75	0.337	0.344
Е	3.80	4.00	0.150	0.157
е	1.27	BSC	0.050	BSC
Н	5.80	6.20	0.228	0.244
h	0.25	0.50	0.010	0.019
Ĺ	0.40	1.25	0.016	0.049
М	0°	7°	0°	7°

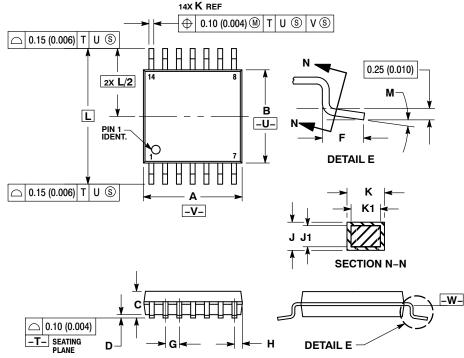


DIMENSIONS: MILLIMETERS

<sup>\*</sup>For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

### PACKAGE DIMENSIONS

### TSSOP-14 CASE 948G-01 **ISSUE B**



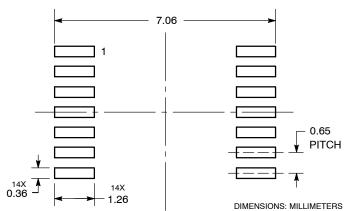
### NOTES:

- DTES:

  1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
  2. CONTROLLING DIMENSION: MILLIMETER.
  3. DIMENSION A DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
  4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
  5. DIMENSION K DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION. ALLOWABLE
- DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE K DIMENSION AT MAXIMUM MATERIAL CONDITION.
- 6. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
  7. DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE -W-.

	MILLIN	IETERS	INC	HES
DIM	MIN	MAX	MIN	MAX
Α	4.90	5.10	0.193	0.200
В	4.30	4.50	0.169	0.177
С	-	1.20		0.047
D	0.05	0.15	0.002	0.006
F	0.50	0.75	0.020	0.030
G	0.65	BSC	0.026	BSC
Н	0.50	0.60	0.020	0.024
J	0.09	0.20	0.004	0.008
J1	0.09	0.16	0.004	0.006
K	0.19	0.30	0.007	0.012
K1	0.19	0.25	0.007	0.010
L	6.40	BSC	0.252	BSC
М	0 °	8 °	0°	8 °

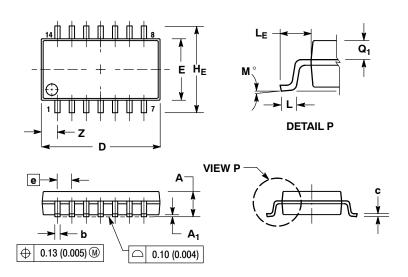
### **SOLDERING FOOTPRINT\***



\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

### PACKAGE DIMENSIONS

SOEIAJ-14 CASE 965-01 ISSUE B



### NOTES

- DIMENSIONING AND TOLERANCING PER ANSI
- DIMENSIUNING AND Y14.5M, 1982.
   CONTROLLING DIMENSION: MILLIMETER.
   DIMENSIONS D AND E DO NOT INCLUDE
   TOTAL AND ARE I. 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.
- 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	INC	HES
DIM	MIN	MAX	MIN	MAX
Α		2.05		0.081
A <sub>1</sub>	0.05	0.20	0.002	0.008
b	0.35	0.50	0.014	0.020
C	0.10	0.20	0.004	0.008
D	9.90	10.50	0.390	0.413
Е	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
LΕ	1.10	1.50	0.043	0.059
М	0 °	10°	0 °	10°
Q1	0.70	0.90	0.028	0.035
Z		1.42		0.056

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