

Data Sheet April 2, 2010 FN4022.14

# 100V/2A Peak, Low Cost, High Frequency Half Bridge Driver

The HIP2100 is a high frequency, 100V Half Bridge N-Channel power MOSFET driver IC. The low-side and high-side gate drivers are independently controlled and matched to 8ns. This gives the user maximum flexibility in dead-time selection and driver protocol. Undervoltage protection on both the low-side and high-side supplies force the outputs low. An on-chip diode eliminates the discrete diode required with other driver ICs. A new level-shifter topology yields the low-power benefits of pulsed operation with the safety of DC operation. Unlike some competitors, the high-side output returns to its correct state after a momentary undervoltage of the high-side supply.

#### Ordering Information

PART NUMBER (Note 1)	PART MARKING	TEMP. RANGE (°C)	PACKAGE	PKG. DWG.#
HIP2100IB	2100 IB	-40 to +125	8 Ld SOIC	M8.15
HIP2100IBZ (Note 2)	2100 IBZ	-40 to +125	8 Ld SOIC (Pb-free)	M8.15
HIP2100EIBZ (Note 2)	2100 EIBZ	-40 to +125	8 Ld EPSOIC (Pb-free)	M8.15C
HIP2100IRZ (Note 2)	HIP 2100IRZ	-40 to +125	16 Ld 5x5 QFN (Pb-free)	L16.5x5
HIP2100IR4Z (Note 2)	21 00IR4Z	-40 to +125	12 Ld 4x4 DFN (Pb-free)	L12.4x4A

#### NOTES:

- Add "T" suffix for tape and reel. Please refer to TB347 for details on reel specifications.
- 2. These Intersil Pb-free plastic packaged products employ special Pb-free material sets, molding compounds/die attach materials, and 100% matte tin plate plus anneal (e3 termination finish, which is RoHS compliant and compatible with both SnPb and Pb-free soldering operations). Intersil Pb-free products are MSL classified at Pb-free peak reflow temperatures that meet or exceed the Pb-free requirements of IPC/JEDEC J STD-020.

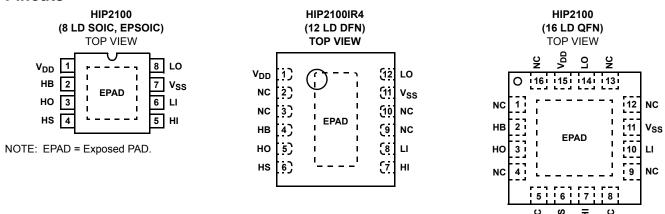
#### **Features**

- · Drives N-Channel MOSFET Half Bridge
- · SOIC, EPSOIC, QFN and DFN Package Options
- SOIC, EPSOIC and DFN Packages Compliant with 100V Conductor Spacing Guidelines of IPC-2221
- · Pb-Free Product Available (RoHS Compliant)
- Bootstrap Supply Max Voltage to 114VDC
- On-Chip  $1\Omega$  Bootstrap Diode
- · Fast Propagation Times for Multi-MHz Circuits
- Drives 1000pF Load with Rise and Fall Times Typ. 10ns
- CMOS Input Thresholds for Improved Noise Immunity
- · Independent Inputs for Non-Half Bridge Topologies
- No Start-Up Problems
- Outputs Unaffected by Supply Glitches, HS Ringing Below Ground, or HS Slewing at High dv/dt
- · Low Power Consumption
- · Wide Supply Range
- · Supply Undervoltage Protection
- 3Ω Driver Output Resistance
- QFN/DFN Package:
  - Compliant to JEDEC PUB95 MO-220
     QFN Quad Flat No Leads Package Outline
  - Near Chip Scale Package Footprint, which Improves PCB Efficiency and has a Thinner Profile

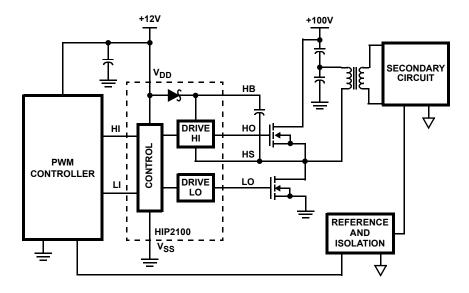
### **Applications**

- Telecom Half Bridge Power Supplies
- · Avionics DC/DC Converters
- · Two-Switch Forward Converters
- Active Clamp Forward Converters

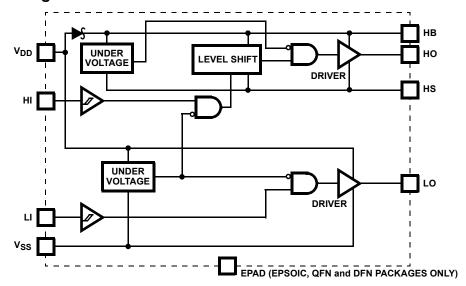
#### **Pinouts**



### Application Block Diagram



### Functional Block Diagram



\*EPAD = Exposed Pad. The EPAD is electrically isolated from all other pins. For best thermal performance connect the EPAD to the PCB power ground plane.

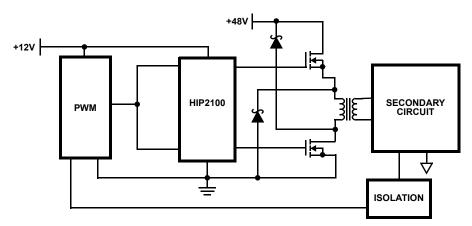


FIGURE 1. TWO-SWITCH FORWARD CONVERTER

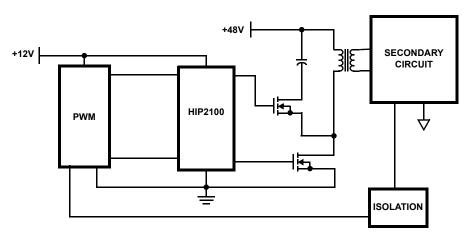


FIGURE 2. FORWARD CONVERTER WITH AN ACTIVE CLAMP

#### **Absolute Maximum Ratings**

Supply Voltage, V <sub>DD</sub> , V <sub>HB</sub> -V <sub>HS</sub> (Notes 3, 4)0.3V to 18V
LI and HI Voltages (Note 4)0.3V to V <sub>DD</sub> +0.3V
Voltage on LO (Note 4)0.3V to V <sub>DD</sub> +0.3V
Voltage on HO (Note 4) V <sub>HS</sub> -0.3V to V <sub>HB</sub> +0.3V
Voltage on HS (Continuous) (Note 4)1V to 110V
Voltage on HB (Note 4) +118V
Average Current in V <sub>DD</sub> to HB diode
ESD Classification Class 1 (1kV)

#### **Maximum Recommended Operating Conditions**

Supply Voltage, V <sub>DD</sub>	+9V to 14.0VDC
Voltage on HS	1V to 100V
Voltage on HS	.(Repetitive Transient) -5V to 105V
Voltage on HB V <sub>HS</sub> +8V to V <sub>H</sub>	$_{\rm IS}$ +14.0V and $V_{\rm DD}$ -1V to $V_{\rm DD}$ +100V
HS Slew Rate	<50V/ns

#### **Thermal Information**

Thermal Resistance (Typical)	θ <sub>JA</sub> (°C/W)	θ <sub>JC</sub> (°C/W)
SOIC (Note 5)	95	50
EPSOIC (Note 6)	40	3.0
QFN (Note 6)	37	6.5
DFN (Note 6)	40	3.0
Max Power Dissipation at +25°C in Free Air	(SOIC, Note !	5) 1.3W
Max Power Dissipation at +25°C in Free Air	(EPSOIC, No	te 6) 3.1W
Max Power Dissipation at +25°C in Free Air	(QFN, Note 6	i) 3.3W
Storage Temperature Range	65°	°C to +150°C
Junction Temperature Range	55°	°C to +150°C
Pb-Free Reflow Profile		ee link below
http://www.intersil.com/pbfree/Pb-FreeR	Reflow.asp	

CAUTION: Do not operate at or near the maximum ratings listed for extended periods of time. Exposure to such conditions may adversely impact product reliability and result in failures not covered by warranty.

#### NOTES:

- 3. The HIP2100 is capable of derated operation at supply voltages exceeding 14V. Figure 16 shows the high-side voltage derating curve for this mode of operation.
- 4. All voltages referenced to  $\ensuremath{V_{SS}}$  unless otherwise specified.
- 5. θ<sub>JA</sub> is measured with the component mounted on a high effective thermal conductivity test board in free air. See Tech Brief TB379 for details.
- θ<sub>JA</sub> is measured in free air with the component mounted on a high effective thermal conductivity test board with "direct attach" features. θ<sub>JC</sub>, the
  "case temp" is measured at the center of the exposed metal pad on the package underside. See Tech Brief TB379.

### **Electrical Specifications** $V_{DD} = V_{HB} = 12V$ , $V_{SS} = V_{HS} = 0V$ , No Load on LO or HO, Unless Otherwise Specified.

			T <sub>J</sub> = +25°C		$T_J = -40$ °C TO +125°C			
PARAMETERS	SYMBOL	TEST CONDITIONS	MIN	ТҮР	MAX	MIN (Note 7)	MAX (Note 7)	UNITS
SUPPLY CURRENTS			·	•				
V <sub>DD</sub> Quiescent Current	I <sub>DD</sub>	LI = HI = 0V	-	0.1	0.15	-	0.2	mA
V <sub>DD</sub> Operating Current	I <sub>DDO</sub>	f = 500kHz	-	1.5	2.5	-	3	mA
Total HB Quiescent Current	I <sub>HB</sub>	LI = HI = 0V	-	0.1	0.15	-	0.2	mA
Total HB Operating Current	I <sub>HBO</sub>	f = 500kHz	-	1.5	2.5	-	3	mA
HB to V <sub>SS</sub> Current, Quiescent	I <sub>HBS</sub>	V <sub>HS</sub> = V <sub>HB</sub> = 114V	-	0.05	1	-	10	μA
HB to V <sub>SS</sub> Current, Operating	I <sub>HBSO</sub>	f = 500kHz	-	0.7	-	-	-	mA
INPUT PINS	'		"					
Low Level Input Voltage Threshold	V <sub>IL</sub>		4	5.4	-	3	-	V
High Level Input Voltage Threshold	V <sub>IH</sub>		-	5.8	7	-	8	V
Input Voltage Hysteresis	V <sub>IHYS</sub>		-	0.4	-	-	-	V
Input Pulldown Resistance	R <sub>I</sub>		-	200	-	100	500	kΩ
UNDERVOLTAGE PROTECTION	'		"					
V <sub>DD</sub> Rising Threshold	V <sub>DDR</sub>		7	7.3	7.8	6.5	8	V
V <sub>DD</sub> Threshold Hysteresis	V <sub>DDH</sub>		-	0.5	-	-	-	V
HB Rising Threshold	V <sub>HBR</sub>		6.5	6.9	7.5	6	8	V
HB Threshold Hysteresis	V <sub>HBH</sub>		-	0.4	-	-	-	V
				•	•			•

### **Electrical Specifications** $V_{DD} = V_{HB} = 12V$ , $V_{SS} = V_{HS} = 0V$ , No Load on LO or HO, Unless Otherwise Specified. (Continued)

				T <sub>J</sub> = +25°C			T <sub>J</sub> = -40°C TO +125°C	
PARAMETERS	SYMBOL	TEST CONDITIONS	MIN	ТҮР	MAX	MIN (Note 7)	MAX (Note 7)	UNITS
BOOT STRAP DIODE			·	•	•			
Low-Current Forward Voltage	$V_{DL}$	I <sub>VDD-HB</sub> = 100μA	-	0.45	0.55	-	0.7	V
High-Current Forward Voltage	V <sub>DH</sub>	I <sub>VDD-HB</sub> = 100mA	-	0.7	0.8	-	1	V
Dynamic Resistance	R <sub>D</sub>	I <sub>VDD-HB</sub> = 100mA	-	0.8	1	-	1.5	Ω
LO GATE DRIVER								
Low Level Output Voltage	V <sub>OLL</sub>	I <sub>LO</sub> = 100mA	-	0.25	0.3	-	0.4	V
High Level Output Voltage	V <sub>OHL</sub>	I <sub>LO</sub> = -100mA, V <sub>OHL</sub> = V <sub>DD</sub> -V <sub>LO</sub>	-	0.25	0.3	-	0.4	V
Peak Pullup Current	I <sub>OHL</sub>	V <sub>LO</sub> = 0V	-	2	-	-	-	Α
Peak Pulldown Current	l <sub>OLL</sub>	V <sub>LO</sub> = 12V	-	2	-	-	-	Α
HO GATE DRIVER	<u>'</u>		'		1	11		
Low Level Output Voltage	V <sub>OLH</sub>	I <sub>HO</sub> = 100mA	-	0.25	0.3	-	0.4	V
High Level Output Voltage	V <sub>OHH</sub>	$I_{HO}$ = -100mA, $V_{OHH}$ = $V_{HB}$ - $V_{HO}$	-	0.25	0.3	-	0.4	V
Peak Pullup Current	Гонн	V <sub>HO</sub> = 0V	-	2	-	-	-	Α
Peak Pulldown Current	lolh	V <sub>HO</sub> = 12V	-	2	-	-	-	Α

### **Switching Specifications** $V_{DD} = V_{HB} = 12V$ , $V_{SS} = V_{HS} = 0V$ , No Load on LO or HO, Unless Otherwise Specified.

			T,	T <sub>J</sub> = +25°C		T <sub>J</sub> = -40°C	TO +125°C	
PARAMETERS	SYMBOL	TEST CONDITIONS	MIN	ТҮР	MAX	MIN (Note 7)	MAX (Note 7)	UNITS
Lower Turn-Off Propagation Delay (LI Falling to LO Falling)	t <sub>LPHL</sub>		-	20	35	-	45	ns
Upper Turn-Off Propagation Delay (HI Falling to HO Falling)	t <sub>HPHL</sub>		-	20	35	-	45	ns
Lower Turn-On Propagation Delay (LI Rising to LO Rising)	t <sub>LPLH</sub>		-	20	35	-	45	ns
Upper Turn-On Propagation Delay (HI Rising to HO Rising)	t <sub>HPLH</sub>		-	20	35	-	45	ns
Delay Matching: Lower Turn-On and Upper Turn-Off	t <sub>MON</sub>		-	2	8	-	10	ns
Delay Matching: Lower Turn-Off and Upper Turn-On	t <sub>MOFF</sub>		-	2	8	-	10	ns
Either Output Rise/Fall Time	t <sub>RC</sub> , t <sub>FC</sub>	C <sub>L</sub> = 1000pF	-	10	-	-	-	ns
Either Output Rise/Fall Time (3V to 9V)	$t_R$ , $t_F$	C <sub>L</sub> = 0.1µF	-	0.5	0.6	-	0.8	μs
Either Output Rise Time Driving DMOS	t <sub>RD</sub>	C <sub>L</sub> = IRFR120	-	20	-	-	-	ns
Either Output Fall Time Driving DMOS	t <sub>FD</sub>	C <sub>L</sub> = IRFR120	-	10	-	-	-	ns
Minimum Input Pulse Width that Changes the Output	t <sub>PW</sub>		-	-	-	-	50	ns
Bootstrap Diode Turn-On or Turn-Off Time	t <sub>BS</sub>		-	10	-	-	-	ns

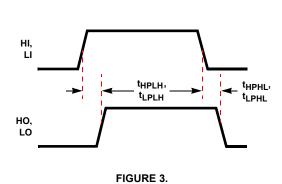
#### NOTE:

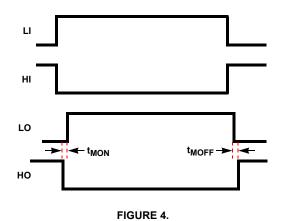
7. Parameters with MIN and/or MAX limits are 100% tested at +25°C, unless otherwise specified. Temperature limits established by characterization and are not production tested.

### Pin Descriptions

SYMBOL	DESCRIPTION
$V_{DD}$	Positive Supply to lower gate drivers. De-couple this pin to V <sub>SS</sub> . Bootstrap diode connected to HB.
НВ	High-Side Bootstrap supply. External bootstrap capacitor is required. Connect positive side of bootstrap capacitor to this pin. Bootstrap diode is on-chip.
НО	High-Side Output. Connect to gate of High-Side power MOSFET.
HS	High-Side Source connection. Connect to source of High-Side power MOSFET. Connect negative side of bootstrap capacitor to this pin.
HI	High-Side input.
LI	Low-Side input.
V <sub>SS</sub>	Chip negative supply, generally will be ground.
LO	Low-Side Output. Connect to gate of Low-Side power MOSFET.
EPAD	Exposed Pad. Connect to ground or float. The EPAD is electrically isolated from all other pins.

### **Timing Diagrams**





### **Typical Performance Curves**

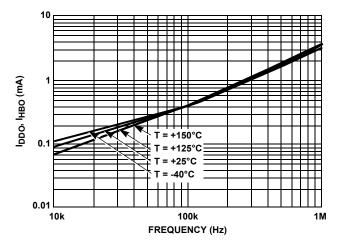


FIGURE 5. OPERATING CURRENT vs FREQUENCY

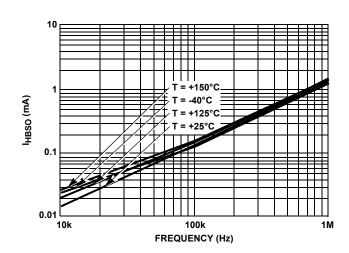


FIGURE 6. HB TO  $V_{SS}$  OPERATING CURRENT vs FREQUENCY

500

400

300

200

VOLL, VOLH (mV)

#### Typical Performance Curves (Continued)

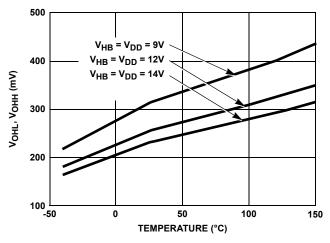
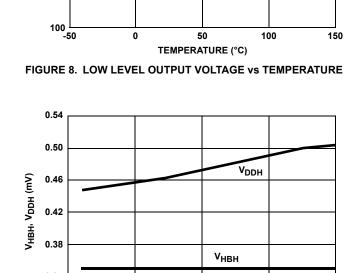


FIGURE 7. HIGH LEVEL OUTPUT VOLTAGE vs TEMPERATURE



 $V_{HB} = V_{DD} = 9V$ 

 $V_{HB} = V_{DD} = 12V$ 

 $V_{HB} = V_{DD} = 14V$ 

150

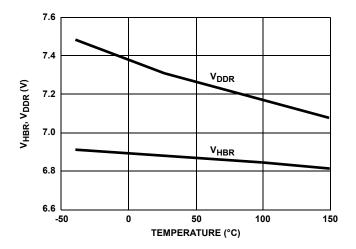


FIGURE 9. UNDERVOLTAGE LOCKOUT THRESHOLD vs **TEMPERATURE** 

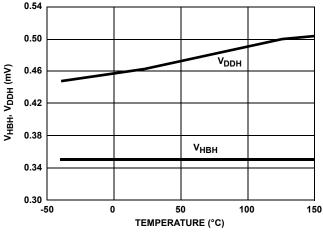


FIGURE 10. UNDERVOLTAGE LOCKOUT HYSTERESIS vs **TEMPERATURE** 

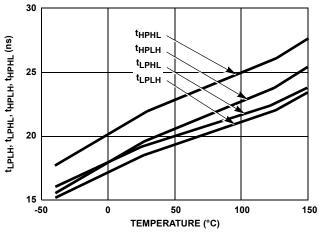


FIGURE 11. PROPAGATION DELAYS vs TEMPERATURE

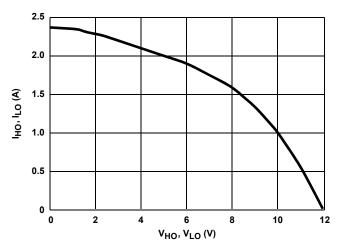


FIGURE 12. PEAK PULLUP CURRENT vs OUTPUT VOLTAGE

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### Typical Performance Curves (Continued)

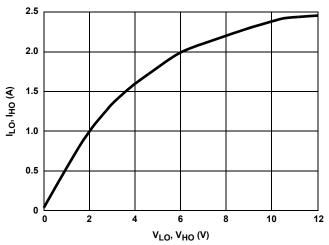


FIGURE 13. PEAK PULLDOWN CURRENT vs OUTPUT VOLTAGE

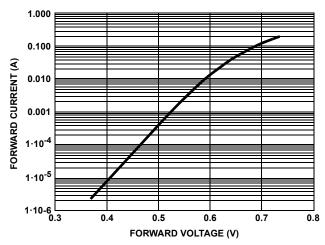


FIGURE 14. BOOTSTRAP DIODE I-V CHARACTERISTICS

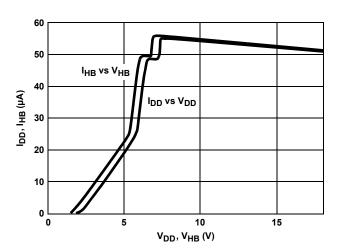


FIGURE 15. QUIESCENT CURRENT vs VOLTAGE

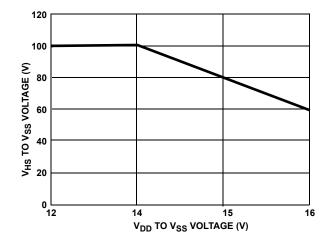
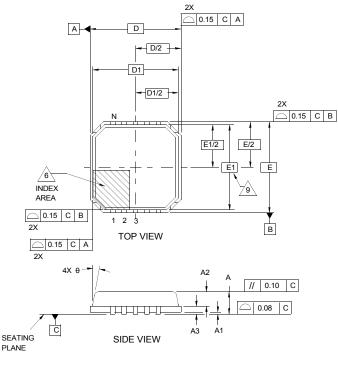
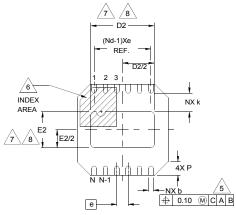


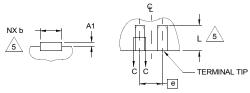
FIGURE 16.  $V_{HS}$  VOLTAGE vs  $V_{DD}$  VOLTAGE

### Dual Flat No-Lead Plastic Package (DFN) Micro Lead Frame Plastic Package (MLFP)





BOTTOM VIEW



FOR EVEN TERMINAL/SIDE

L12.4x4A
12 LEAD DUAL FLAT NO-LEAD PLASTIC PACKAGE

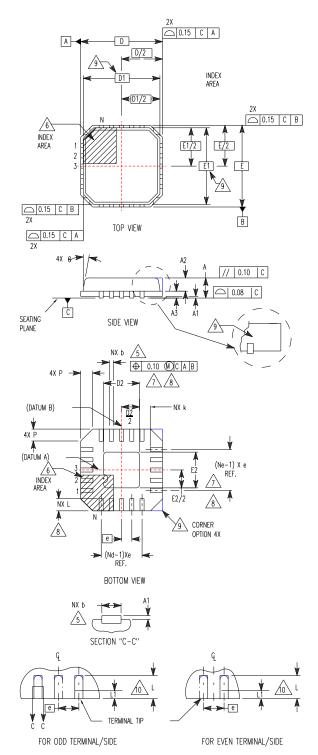
SYMBOL	MIN	NOMINAL	MAX	NOTES			
Α	-	0.85	0.90	-			
A1	0.00	0.01	0.05	-			
A2	-	0.65	0.70	-			
A3		0.20 REF		-			
b	0.18	0.23	0.30	5, 8			
D		4.00 BSC		-			
D1		3.75 BSC					
D2	2.65	2.80	2.95	7, 8			
Е		4.00 BSC					
E1		3.75 BSC					
E2	1.43	1.58	1.73	7, 8			
е		0.50 BSC		-			
k	0.635	-	-	-			
L	0.30	0.40	0.50	8			
N		2					
Nd		6					
Р	0.24	0.42	0.60	-			
θ	-	-	12	-			

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#### NOTES:

- 1. Dimensioning and tolerancing conform to ASME Y14.5M-1994.
- 2. N is the number of terminals.
- 3. Nd refer to the number of terminals on D.
- 4. All dimensions are in millimeters. Angles are in degrees.
- 5. Dimension b applies to the metallized terminal and is measured between 0.15mm and 0.30mm from the terminal tip.
- The configuration of the pin #1 identifier is optional, but must be located within the zone indicated. The pin #1 identifier may be either a mold or mark feature.
- 7. Dimensions D2 and E2 are for the exposed pads which provide improved electrical and thermal performance.
- 8. Nominal dimensions are provided to assist with PCB Land Pattern Design efforts, see Intersil Technical Brief TB389.
- 9. COMPLIANT TO JEDEC MO-229-VGGD-2 ISSUE C except for the L dimension.

### Quad Flat No-Lead Plastic Package (QFN) Micro Lead Frame Plastic Package (MLFP)



L16.5x5

16 LEAD QUAD FLAT NO-LEAD PLASTIC PACKAGE (COMPLIANT TO JEDEC MO-220VHHB ISSUE C)

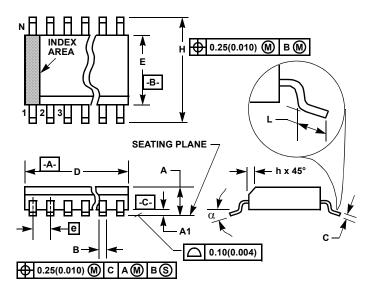
SYMBOL	MIN	NOMINAL	MAX	NOTES			
Α	0.80	0.90	1.00	-			
A1	-	-	0.05	-			
A2	-	-	1.00	9			
A3		0.20 REF		9			
b	0.28	0.33	0.40	5, 8			
D		5.00 BSC		-			
D1		4.75 BSC					
D2	2.55	2.70	2.85	7, 8			
Е		-					
E1		4.75 BSC					
E2	2.55	2.70	2.85	7, 8			
е		0.80 BSC		-			
k	0.25	-	-	-			
L	0.35	0.60	0.75	8			
L1	-	-	0.15	10			
N		16					
Nd		4					
Ne	4	4		3			
Р	-	-	0.60	9			
θ	-	-	12	9			

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#### NOTES:

- 1. Dimensioning and tolerancing conform to ASME Y14.5-1994.
- 2. N is the number of terminals.
- 3. Nd and Ne refer to the number of terminals on each D and E.
- 4. All dimensions are in millimeters. Angles are in degrees.
- 5. Dimension b applies to the metallized terminal and is measured between 0.15mm and 0.30mm from the terminal tip.
- The configuration of the pin #1 identifier is optional, but must be located within the zone indicated. The pin #1 identifier may be either a mold or mark feature.
- 7. Dimensions D2 and E2 are for the exposed pads which provide improved electrical and thermal performance.
- 8. Nominal dimensions are provided to assist with PCB Land Pattern Design efforts, see Intersil Technical Brief TB389.
- Features and dimensions A2, A3, D1, E1, P & 0 are present when Anvil singulation method is used and not present for saw singulation.
- Depending on the method of lead termination at the edge of the package, a maximum 0.15mm pull back (L1) maybe present. L minus L1 to be equal to or greater than 0.3mm.

### Small Outline Plastic Packages (SOIC)



#### NOTES:

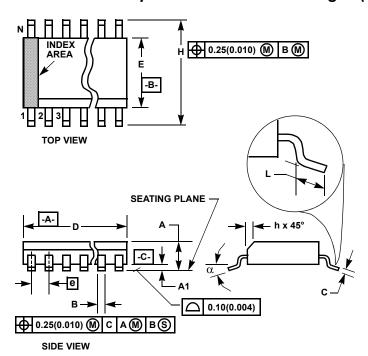
- Symbols are defined in the "MO Series Symbol List" in Section 2.2 of Publication Number 95.
- 2. Dimensioning and tolerancing per ANSI Y14.5M-1982.
- Dimension "D" does not include mold flash, protrusions or gate burrs. Mold flash, protrusion and gate burrs shall not exceed 0.15mm (0.006 inch) per side.
- Dimension "E" does not include interlead flash or protrusions. Interlead flash and protrusions shall not exceed 0.25mm (0.010 inch) per side
- 5. The chamfer on the body is optional. If it is not present, a visual index feature must be located within the crosshatched area.
- 6. "L" is the length of terminal for soldering to a substrate.
- 7. "N" is the number of terminal positions.
- 8. Terminal numbers are shown for reference only.
- The lead width "B", as measured 0.36mm (0.014 inch) or greater above the seating plane, shall not exceed a maximum value of 0.61mm (0.024 inch).
- Controlling dimension: MILLIMETER. Converted inch dimensions are not necessarily exact.

M8.15 (JEDEC MS-012-AA ISSUE C)
8 LEAD NARROW BODY SMALL OUTLINE PLASTIC PACKAGE

	INCHES		MILLIN	MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	NOTES	
Α	0.0532	0.0688	1.35	1.75	-	
A1	0.0040	0.0098	0.10	0.25	-	
В	0.013	0.020	0.33	0.51	9	
С	0.0075	0.0098	0.19	0.25	-	
D	0.1890	0.1968	4.80	5.00	3	
Е	0.1497	0.1574	3.80	4.00	4	
е	0.050	BSC	1.27 BSC		-	
Н	0.2284	0.2440	5.80	6.20	-	
h	0.0099	0.0196	0.25	0.50	5	
L	0.016	0.050	0.40	1.27	6	
N	8		8		7	
α	0°	8°	0°	8°	-	

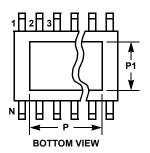
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#### Small Outline Exposed Pad Plastic Packages (EPSOIC)



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#### M8.15C 8 LEAD NARROW BODY SMALL OUTLINE EXPOSED PAD PLASTIC PACKAGE

	INC	HES	MILLIMETE		
SYMBOL	MIN	MAX	MIN	MAX	NOTES
Α	0.056	0.066	1.43	1.68	-
A1	0.001	0.005	0.03	0.13	-
В	0.0138	0.0192	0.35	0.49	9
С	0.0075	0.0098	0.19	0.25	-
D	0.189	0.196	4.80	4.98	3
Е	0.150	0.157	3.811	3.99	4
е	0.050	BSC	1.27	-	
Н	0.230	0.244	5.84	6.20	-
h	0.010	0.016	0.25	0.41	5
L	0.016	0.035	0.41	0.89	6
N	8	8		3	7
α	0°	8°	0°	8°	-
Р	-	0.126	-	3.200	11
P1	-	0.099	-	2.514	11

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#### NOTES:

- Symbols are defined in the "MO Series Symbol List" in Section 2.2 of Publication Number 95.
- 2. Dimensioning and tolerancing per ANSI Y14.5M-1982.
- Dimension "D" does not include mold flash, protrusions or gate burrs. Mold flash, protrusion and gate burrs shall not exceed 0.15mm (0.006 inch) per side.
- Dimension "E" does not include interlead flash or protrusions. Interlead flash and protrusions shall not exceed 0.25mm (0.010 inch) per side.
- 5. The chamfer on the body is optional. If it is not present, a visual index feature must be located within the crosshatched area.
- 6. "L" is the length of terminal for soldering to a substrate.
- 7. "N" is the number of terminal positions.
- 8. Terminal numbers are shown for reference only.
- The lead width "B", as measured 0.36mm (0.014 inch) or greater above the seating plane, shall not exceed a maximum value of 0.61mm (0.024 inch).
- 10. Controlling dimension: MILLIMETER. Converted inch dimensions are not necessarily exact.
- Dimensions "P" and "P1" are thermal and/or electrical enhanced variations. Values shown are maximum size of exposed pad within lead count and body size.

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