High Voltage High and Low Side Driver

The NCP5181 is a High Voltage Power MOSFET Driver providing two outputs for direct drive of 2 N-channel power MOSFETs arranged in a half-bridge (or any other high-side + low-side) configuration.

It uses the bootstrap technique to insure a proper drive of the High-side power switch. The driver works with 2 independent inputs to accommodate any topology (including half-bridge, asymmetrical half-bridge, active clamp and full-bridge...).

Features

- High Voltage Range: up to 600 V
- dV/dt Immunity ±50 V/nsec
- Gate Drive Supply Range from 10 V to 20 V
- High and Low DRV Outputs
- Output Source / Sink Current Capability 1.4 A / 2.2 A
- 3.3 V and 5 V Input Logic Compatible
- Up to V_{CC} Swing on Input Pins
- Matched Propagation Delays between Both Channels
- Outputs in Phase with the Inputs
- Independent Logic Inputs to Accommodate All Topologies
- Under V_{CC} LockOut (UVLO) for Both Channels
- Pin to Pin Compatible with IR2181(S)
- These are Pb-Free Devices

Applications

- High Power Energy Management
- Half-bridge Power Converters
- Any Complementary Drive Converters (asymmetrical half-bridge, active clamp)
- Full-bridge Converters
- Bridge Inverters for UPS Systems

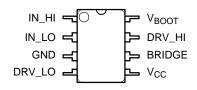
PIN ASSIGNMENT

PIN	FUNCTION
IN_HI	Logic Input for High Side Driver Output In Phase
IN_LO	Logic Input for Low Side Driver Output In Phase
GND	Ground
DRV_LO	Low Side Gate Drive Output
V _{CC}	Low Side and Main Power Supply
V _{BOOT}	Bootstrap Power Supply
DRV_HI	High Side Gate Drive Output
BRIDGE	Bootstrap Return or High Side Floating Supply Return



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SOIC-8 D SUFFIX CASE 751 PDIP-8 P SUFFIX CASE 626

MARKING DIAGRAMS





NCP5181P.

5181 = Specific Device Code A = Assembly Location

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

ORDERING INFORMATION

Device	Package	Shipping [†]
NCP5181PG	PDIP-8 (Pb-Free)	50 Units/Tube
NCP5181DR2G	SOIC-8 (Pb-Free)	2.500/Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

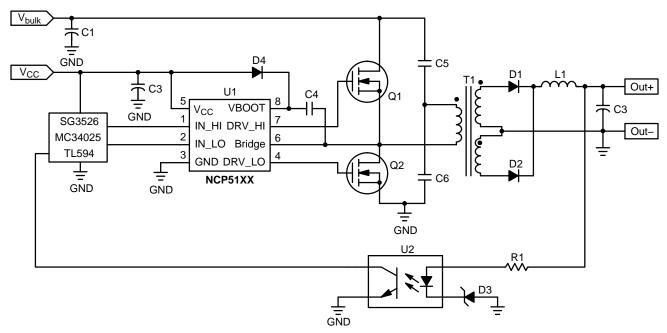


Figure 1. Typical Application

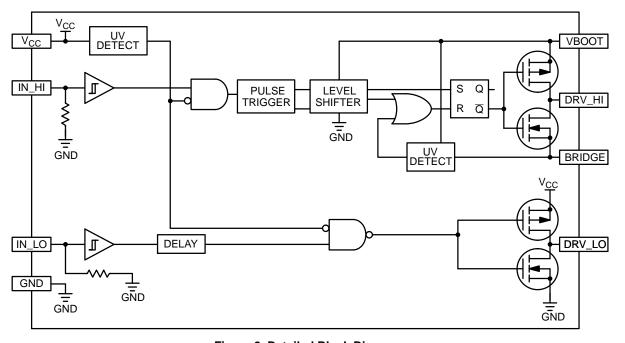


Figure 2. Detailed Block Diagram

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Main Power Supply Voltage	V _{CC}	-0.3 to 20	V
VHV: High Voltage BOOT Pin	V _{BOOT}	-1 to 620	V
VHV: High Voltage BRIDGE Pin	V_{BRIDGE}	–1 to 600	V
VHV: Floating Supply Voltage	V _{BOOT} – V _{BRIDGE}	0 to 20	V
VHV: High Side Output Voltage	V _{DRV_HI}	V _{BRIDGE} -0.3 to V _{BOOT} +0.3	V
Low Side Output Voltage	V _{DRV_LO}	-0.3 to V _{CC} +0.3	V
Allowable Output Slew Rate	dV _{BRIDGE} /d _t	50	V/ns
Inputs IN_HI, IN_LO	V _{IN_XX}	-1.0 to V _{CC} +0.3	V
ESD Capability: Human Body Model (All Pins Except Pins 6–7–8) Machine Model (All Pins Except Pins 6–7–8)		2.0 200	kV V
Latchup Capability per Jedec JESD78			
Power Dissipation and Thermal Characteristics PDIP8: Thermal Resistance, Junction–to–Air SO–8: Thermal Resistance, Junction–to–Air	R _θ JA R _θ JA	100 178	°C/W
Maximum Operating Junction Temperature	T _{J_max}	+150	°C

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.

Rating	Symbol	T _A -40°C to 125°C		Units	
OUTPUT SECTION					
		Min	Тур	Max	
Output High Short Circuit pulsed Current $V_{DRV} = 0 \text{ V}$, $PW \le 10 \mu s$, (Note 1)	I _{DRVhigh}	-	1.4	_	А
Output Low Short Circuit Pulsed Current $V_{DRV} = V_{CC}$, $PW \le 10 \mu s$, (Note 1)	I _{DRVlow}	-	2.2	_	А
Output Resistor (Typical Value @ 25°C Only) Source	R _{OH}	-	5	12	Ω
Output Resistor (Typical Value @ 25°C Only) Sink	R _{OL}	-	2	8	Ω
DYNAMIC OUTPUT SECTION			•		
Rating	Symbol	Min	Тур	Max	Units
Turn-on Propagation Delay (V _{bridge} = 0 V)	t _{ON}	_	100	170	ns
Turn-off Propagation Delay (V _{bridge} = 0 V or 50 V) (Note 2)	t _{OFF}	_	100	170	ns
Output Voltage Risetime (from 10% to 90% @ V _{CC} = 15 V) with 1 nF Load	t _r	-	40	60	ns
Output Voltage Falling Edge (from 90% to 10% $@V_{CC} = 15 \text{ V}$) with 1 nF Load	t _f	-	20	40	ns
Propagation Delay Matching between the High Side and the Low Side @ 25°C (Note 3)	Δ_{t}	-	20	35	ns
Minimum Input Pulse Width that Changes the Output	t _{PW}	-	_	100	ns
INPUT SECTION				•	
Low Level Input Voltage Threshold	V _{IN}	_	-	0.8	V
Input Pulldown Resistor (V _{IN} < 0.5 V)	R _{IN}	_	200	_	kΩ
High Level Input Voltage Threshold	V _{IN}	2.3	_	_	V
SUPPLY SECTION					
V _{CC} UV Startup Voltage Threshold	V _{CC_stup}	7.9	8.9	9.8	V
V _{CC} UV Shutdown Voltage Threshold	V _{CC_shtdwn}	7.3	8.2	9.0	V
Hysteresis on V _{CC}	V _{CC_hyst}	0.3	0.7	_	V
V _{boot} Startup Voltage Threshold Reference to Bridge Pin (V _{boot_stup} = V _{boot} – V _{bridge})	V _{boot_stup}	7.9	8.9	9.8	V
V _{boot} UV Shutdown Voltage Threshold	V _{boot_shtdwn}	7.3	8.2	9.0	V
Hysteresis on V _{boot}	V _{boot_shtdwn}	0.3	0.7	-	V
Leakage Current on High Voltage Pins to GND (V _{BOOT} = V _{BRIDGE} = DRV_HI = 600 V)	I _{HV_LEAK}	-	0.5	40	μΑ
Consumption in Active Mode (V _{CC} = V _{boot} , f _{sw} = 100 kHz and 1 nF Load on Both Driver Outputs)	I _{CC1}	-	4.5	6.5	mA
Consumption in Inhibition Mode (V _{CC} = V _{boot})	I _{CC2}	-	250	400	μΑ
V _{CC} Current Consumption in Inhibition Mode	I _{CC3}	-	215	-	μΑ
V _{boot} Current Consumption in Inhibition Mode	I _{CC4}	_	35	_	μΑ

*Note: see also characterization curves

Guaranteed by design.
 Turn-off propagation delay @ V_{bridge} = 600 V is guaranteed by design
 See characterization curve for Δ_t parameters variation on the full range temperature.
 Timing diagram definition see Figures 4, 5 and 6.

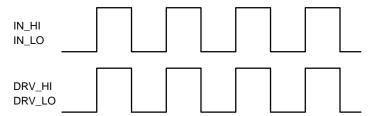


Figure 3. Input/Output Timing Diagram

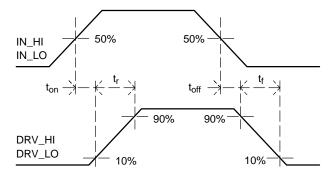


Figure 4. Switching Time Waveform Definitions

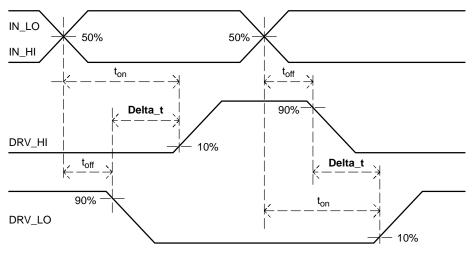


Figure 5. Delay Matching Waveforms Definition

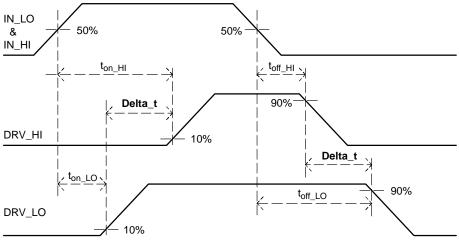


Figure 6. Other Delay Matching Waveforms Definition

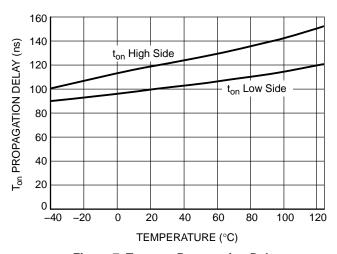


Figure 7. Turn-on Propagation Delay vs.
Temperature

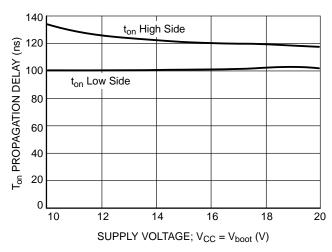


Figure 8. Turn-on Propagation Delay vs. V_{CC} Voltage ($V_{CC} = V_{boot}$)

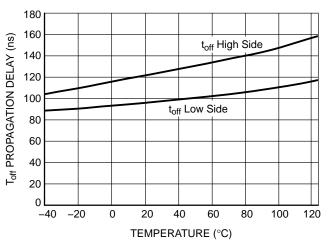


Figure 9. Turn-off Propagation Delay vs. Temperature

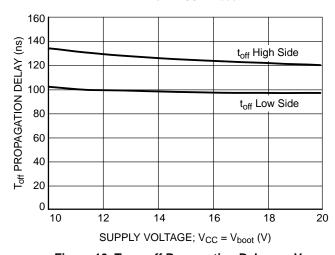


Figure 10. Turn-off Propagation Delay vs. V_{CC} Voltage ($V_{CC} = V_{boot}$)

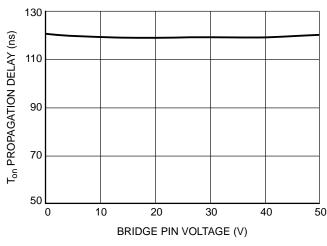


Figure 11. High Side Turn-on Propagation Delay vs. V_{BRIDGE} Voltage

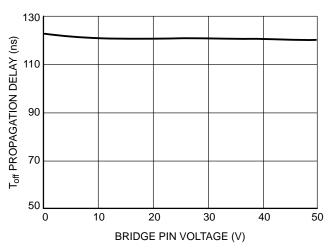


Figure 12. High Side Turn-off Propagation Delay vs. V_{BRIDGE} Voltage

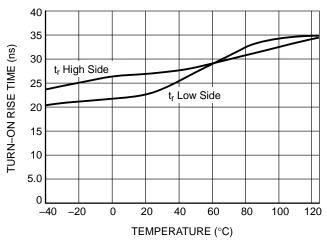


Figure 13. Turn-on Rise Time vs. Temperature

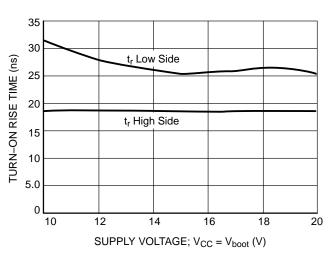


Figure 14. Turn-on Rise Time vs. V_{CC} Voltage $(V_{CC} = V_{boot})$

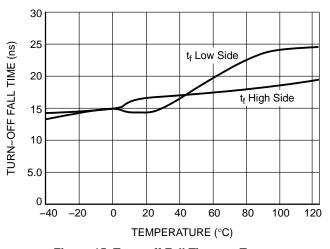


Figure 15. Turn-off Fall Time vs. Temperature

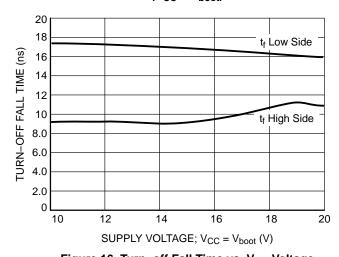


Figure 16. Turn-off Fall Time vs. V_{CC} Voltage $(V_{CC} = V_{boot})$

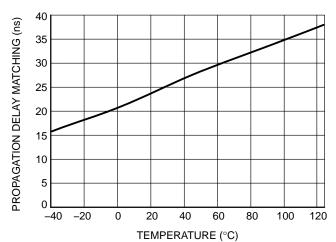
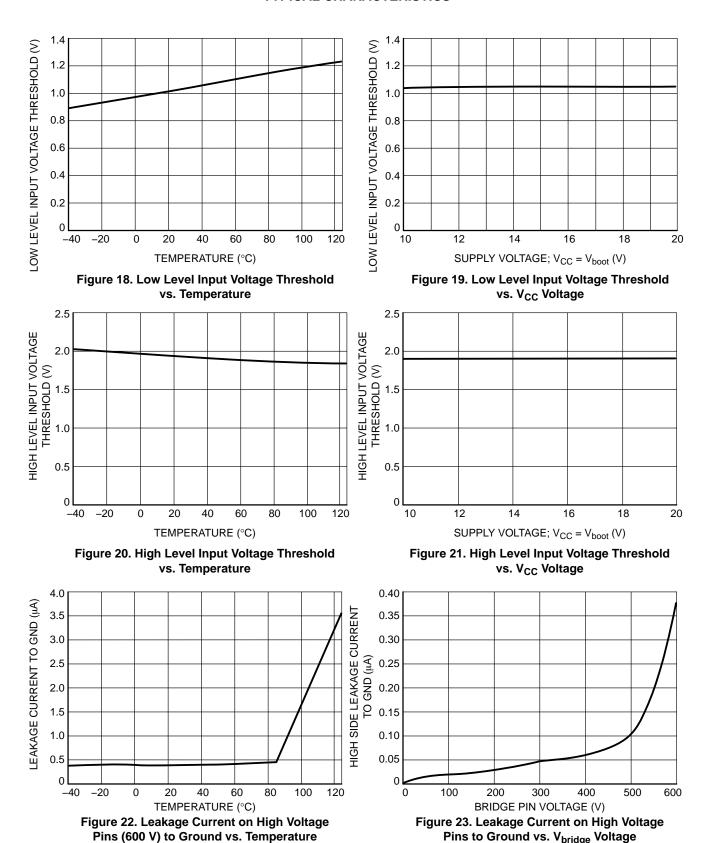


Figure 17. Propagation Delay Matching Between High Side and Low Side Driver

TYPICAL CHARACTERISTICS



 $(V_{bridge} = V_{boot} = V_{DRV HI})$

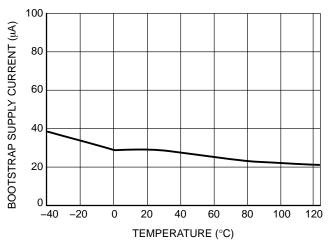
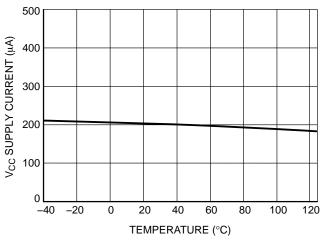


Figure 24. High Side Supply Current vs. Temperature

Figure 25. High Side Supply Current vs. Bootstrap Supply Voltage



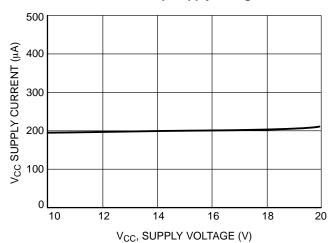
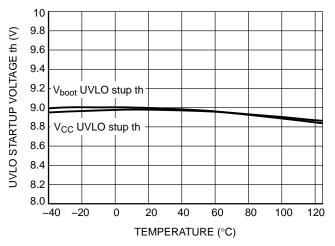


Figure 26. V_{CC} Supply Current vs. Temperature

Figure 27. V_{CC} Supply Current vs. V_{CC} Supply Voltage



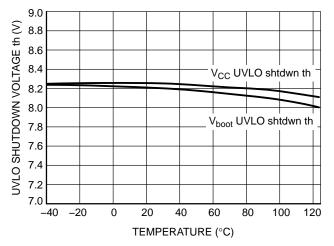


Figure 28. UVLO Start Up Voltage vs. Temperature

Figure 29. UVLO Shut Down Voltage vs. Bootstrap Supply Voltage

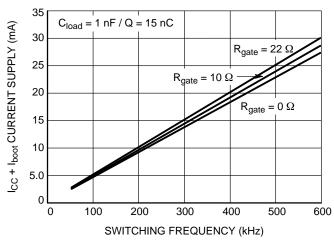


Figure 30. ICC1 Consumption vs. Switching Frequency with 15 nC Load on Each Driver

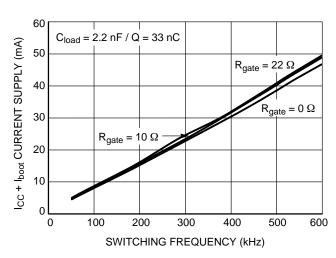


Figure 31. ICC1 Consumption vs. Switching Frequency with 33 nC Load on Each Driver

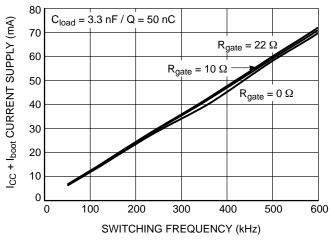


Figure 32. ICC1 Consumption vs. Switching Frequency with 50 nC Load on Each Driver

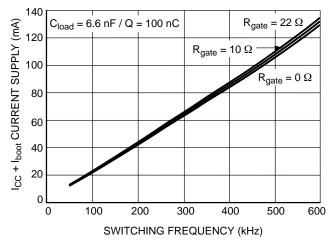
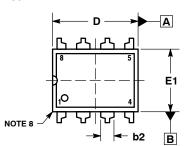


Figure 33. ICC1 Consumption vs. Switching Frequency with 100 nC Load on Each Driver

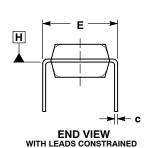


PDIP-8 CASE 626-05 ISSUE P

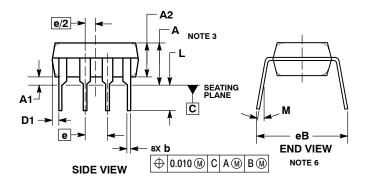
DATE 22 APR 2015



TOP VIEW



NOTE 5



STYLE 1: PIN 1. AC IN 2. DC + IN 3. DC - IN 4. AC IN 5. GROUND 6. OUTPUT

7. AUXILIARY 8. V_{CC}

NOTES

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
- CONTROLLING DIMENSION: INCHES.
 DIMENSIONS A, A1 AND L ARE MEASURED WITH THE PACK-
- AGE SEATED IN JEDEC SEATING PLANE GAUGE GS-3.
 DIMENSIONS D, D1 AND E1 DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS. MOLD FLASH OR PROTRUSIONS ARE NOT TO EXCEED 0.10 INCH.
- DIMENSION E IS MEASURED AT A POINT 0.015 BELOW DATUM PLANE H WITH THE LEADS CONSTRAINED PERPENDICULAR
- 6. DIMENSION eB IS MEASURED AT THE LEAD TIPS WITH THE
- DATUM PLANE H IS COINCIDENT WITH THE BOTTOM OF THE LEADS, WHERE THE LEADS EXIT THE BODY.
- 8. PACKAGE CONTOUR IS OPTIONAL (ROUNDED OR SQUARE CORNERS).

	INCHES		MILLIM	ETERS
DIM	MIN	MAX	MIN	MAX
Α		0.210		5.33
A1	0.015		0.38	
A2	0.115	0.195	2.92	4.95
b	0.014	0.022	0.35	0.56
b2	0.060	TYP	1.52	TYP
С	0.008	0.014	0.20	0.36
D	0.355	0.400	9.02	10.16
D1	0.005		0.13	
Е	0.300	0.325	7.62	8.26
E1	0.240	0.280	6.10	7.11
е	0.100 BSC		2.54	BSC
eВ		0.430		10.92
L	0.115	0.150	2.92	3.81
M		10°		10°

GENERIC MARKING DIAGRAM*



XXXX = Specific Device Code = Assembly Location

WL = Wafer Lot YY = Year WW = Work Week = Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " ■", may or may not be present.

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SOIC-8 NB CASE 751-07 **ISSUE AK**

DATE 16 FEB 2011



- NOTES:
 1. DIMENSIONING AND TOLERANCING PER
- ANSI Y14.5M, 1982. CONTROLLING DIMENSION: MILLIMETER.
- DIMENSION A AND B DO NOT INCLUDE MOLD PROTRUSION.
- MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE
- 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.
- 751-01 THRU 751-06 ARE OBSOLETE. NEW STANDARD IS 751-07.

	MILLIMETERS		INC	HES
DIM	MIN	MAX	MIN	MAX
Α	4.80	5.00	0.189	0.197
В	3.80	4.00	0.150	0.157
С	1.35	1.75	0.053	0.069
D	0.33	0.51	0.013	0.020
G	1.27 BSC		0.050 BSC	
Н	0.10	0.25	0.004	0.010
J	0.19	0.25	0.007	0.010
K	0.40	1.27	0.016	0.050
М	0 °	8 °	0 °	8 °
N	0.25	0.50	0.010	0.020
S	5.80	6.20	0.228	0.244

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.

GENERIC MARKING DIAGRAM*



XXXXX = Specific Device Code = Assembly Location = Wafer Lot

= Year = Work Week = Pb-Free Package XXXXXX AYWW AYWW H \mathbb{H} Discrete **Discrete** (Pb-Free)

XXXXXX = Specific Device Code = Assembly Location Α

= Year ww = Work Week

= Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

STYLES ON PAGE 2

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SOIC-8 NB CASE 751-07 ISSUE AK

DATE 16 FEB 2011

			27112 101 22 2
STYLE 1: PIN 1. EMITTER 2. COLLECTOR 3. COLLECTOR 4. EMITTER 5. EMITTER 6. BASE 7. BASE 8. EMITTER	STYLE 2: PIN 1. COLLECTOR, DIE, #1 2. COLLECTOR, #1 3. COLLECTOR, #2 4. COLLECTOR, #2 5. BASE, #2 6. EMITTER, #2 7. BASE, #1 8. EMITTER, #1	STYLE 3: PIN 1. DRAIN, DIE #1 2. DRAIN, #1 3. DRAIN, #2 4. DRAIN, #2 5. GATE, #2 6. SOURCE, #2 7. GATE, #1 8. SOURCE, #1	
STYLE 5: PIN 1. DRAIN 2. DRAIN 3. DRAIN 4. DRAIN 5. GATE 6. GATE 7. SOURCE 8. SOURCE	STYLE 6: PIN 1. SOURCE 2. DRAIN 3. DRAIN 4. SOURCE 5. SOURCE 6. GATE 7. GATE 8. SOURCE	STYLE 7: PIN 1. INPUT 2. EXTERNAL BYPASS 3. THIRD STAGE SOURCE 4. GROUND 5. DRAIN 6. GATE 3 7. SECOND STAGE Vd 8. FIRST STAGE Vd	STYLE 8: PIN 1. COLLECTOR, DIE #1 2. BASE, #1 3. BASE, #2 4. COLLECTOR, #2 5. COLLECTOR, #2 6. EMITTER, #2 7. EMITTER, #1 8. COLLECTOR, #1
STYLE 9: PIN 1. EMITTER, COMMON 2. COLLECTOR, DIE #1 3. COLLECTOR, DIE #2 4. EMITTER, COMMON 5. EMITTER, COMMON 6. BASE, DIE #2 7. BASE, DIE #1 8. EMITTER, COMMON	STYLE 10: PIN 1. GROUND 2. BIAS 1 3. OUTPUT 4. GROUND 5. GROUND 6. BIAS 2 7. INPUT 8. GROUND STYLE 14: PIN 1. N-SOURCE 2. N-GATE 3. P-SOURCE	STYLE 11: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 2 5. DRAIN 2 6. DRAIN 2 7. DRAIN 1 8. DRAIN 1	STYLE 12: PIN 1. SOURCE 2. SOURCE 3. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. DRAIN 8. DRAIN
STYLE 13: PIN 1. N.C. 2. SOURCE 3. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. DRAIN 8. DRAIN	STYLE 14: PIN 1. N-SOURCE 2. N-GATE 3. P-SOURCE 4. P-GATE 5. P-DRAIN 6. P-DRAIN 7. N-DRAIN 8. N-DRAIN	8. DHAIN 1 STYLE 15: PIN 1. ANODE 1 2. ANODE 1 3. ANODE 1 4. ANODE 1 5. CATHODE, COMMON 6. CATHODE, COMMON 7. CATHODE, COMMON 8. CATHODE, COMMON	STYLE 16: PIN 1. EMITTER, DIE #1 2. BASE, DIE #1 3. EMITTER, DIE #2 4. BASE, DIE #2 5. COLLECTOR, DIE #2 6. COLLECTOR, DIE #2 7. COLLECTOR, DIE #1 8. COLLECTOR, DIE #1
STYLE 17: PIN 1. VCC 2. V2OUT 3. V1OUT 4. TXE 5. RXE 6. VEE 7. GND 8. ACC	STYLE 18: PIN 1. ANODE 2. ANODE 3. SOURCE 4. GATE 5. DRAIN 6. DRAIN 7. CATHODE 8. CATHODE	STYLE 19: PIN 1. SOURCE 1 2. GATE 1 3. SOURCE 2 4. GATE 2 5. DRAIN 2 6. MIRROR 2 7. DRAIN 1 8. MIRROR 1	STYLE 20: PIN 1. SOURCE (N) 2. GATE (N) 3. SOURCE (P) 4. GATE (P) 5. DRAIN 6. DRAIN 7. DRAIN 8. DRAIN
6. VEE 7. GND 8. ACC STYLE 21: PIN 1. CATHODE 1 2. CATHODE 2 3. CATHODE 3 4. CATHODE 4 5. CATHODE 5 6. COMMON ANODE 7. COMMON ANODE 8. CATHODE 6	STYLE 22: PIN 1. I/O LINE 1 2. COMMON CATHODE/VCC 3. COMMON CATHODE/VCC 4. I/O LINE 3 5. COMMON ANODE/GND 6. I/O LINE 4 7. I/O LINE 5 8. COMMON ANODE/GND	STYLE 23: PIN 1. LINE 1 IN 2. COMMON ANODE/GND 3. COMMON ANODE/GND 4. LINE 2 IN 5. LINE 2 OUT 6. COMMON ANODE/GND 7. COMMON ANODE/GND 8. LINE 1 OUT	a COLLECTOR/ANODE
STYLE 25: PIN 1. VIN 2. N/C 3. REXT 4. GND 5. IOUT 6. IOUT 7. IOUT 8. IOUT	STYLE 26: PIN 1. GND 2. dv/dt 3. ENABLE 4. ILIMIT 5. SOURCE 6. SOURCE 7. SOURCE 8. VCC	STYLE 27: PIN 1. ILIMIT 2. OVLO 3. UVLO 4. INPUT+ 5. SOURCE 6. SOURCE 7. SOURCE 8. DRAIN	STYLE 28: PIN 1. SW_TO_GND 2. DASIC_OFF 3. DASIC_SW_DET 4. GND 5. V_MON 6. VBULK 7. VBULK 8. VIN
STYLE 29: PIN 1. BASE, DIE #1 2. EMITTER, #1 3. BASE, #2 4. EMITTER, #2 5. COLLECTOR, #2 6. COLLECTOR, #2 7. COLLECTOR, #1 8. COLLECTOR, #1	STYLE 30: PIN 1. DRAIN 1 2. DRAIN 1 3. GATE 2 4. SOURCE 2 5. SOURCE 1/DRAIN 2 6. SOURCE 1/DRAIN 2 7. SOURCE 1/DRAIN 2 8. GATE 1		

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