Low-Power D-Type Transparent Latch with 3-State Output

The NL17SG373 MiniGateTM is an advanced high-speed CMOS D-Type Transparent Latch with 3-State Output in ultra-small footprint.

The NL17SG373 input structures provide protection when voltages up to 5.5 V are applied, regardless of the supply voltage.

This device is fully specified for partial power–down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

Features

- Wide Operating V_{CC} Range: 0.9 V to 3.6 V
- High Speed: $t_{PD} = 2.4 \text{ ns}$ (Typ) @ $V_{CC} = 3.0 \text{ V}$, $C_L = 15 \text{ pF}$
- Low Power Dissipation: $I_{CC} = 0.5 \ \mu A$ (Max) at $T_A = 25^{\circ}C$
- 5.5 V Overvoltage Tolerant (OVT) Input Pins
- Ultra-Small Packages
- These Devices are Pb-Free and are RoHS Compliant

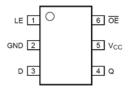


Figure 1. SC88 (Top View)

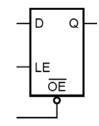
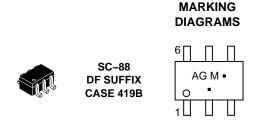


Figure 2. Logic Symbol



ON Semiconductor®

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- AG = Device Code M = Date Code*
 - = Pb–Free Package

(Note: Microdot may be in either location)

*Date Code orientation and/or position may vary depending upon manufacturing location.

PIN ASSIGNMENT

Pin	Function
1	LE
2	GND
3	D
4	Q
5	V _{CC}
6	ŌĒ

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 9 of this data sheet.

FUNCTION TABLE

	Input			Output	
OE	LE	D	Internal Latch	Q	Operating Mode
L	н	L	L	L	Enable and Read Register
L	Н	Н	Н	Н	(Transparent Mode)
L	L	Х	L	L	Latch and Read Register
L	L	Х	Н	Н	
Н	Х	Х	Х	Z	Latch Register and Disable Output

MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _{CC}	DC Supply Voltage	–0.5 to +5.5	V
V _{IN}	DC Input Voltage	-0.5 to +5.5	V
V _{OUT}	DC Output Voltage	–0.5 to V _{CC} + 0.5	V
I _{IK}	DC Input Diode Current V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current V _{OUT} < GND, V _{OUT} > V _{CC}	±50	mA
Ι _Ο	DC Output Source/Sink Current	±20	mA
I _{CC}	DC Supply Current Per Supply Pin	±50	mA
I _{GND}	DC Ground Current per Ground Pin	±50	mA
T _{STG}	Storage Temperature Range	-65 to +150	°C
ΤL	Lead Temperature, 1 mm from Case for 10 Seconds	260	°C
TJ	Junction Temperature Under Bias	150	°C
MSL	Moisture Sensitivity	Level 1	
F _R	Flammability Rating Oxygen Index: 28 to 34	UL 94 V–0 @ 0.125 in	
V _{ESD}	ESD Withstand Voltage Human Body Mode (Note 2) Machine Model (Note 3)	> 3000 > 200	V
ILATCHUP	Latchup Performance Above V _{CC} and Below GND at 125°C (Note 4)	±100	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. Measured with minimum pad spacing on an FR4 board, using 10 mm-by-1 inch, 2 ounce copper trace no air flow.

Tested to EIA / JESD22–A114–A.
Tested to EIA / JESD22–A115–A.

4. Tested to EIA / JESD78.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage	0.9	3.6	V
V _{IN}	Digital Input Voltage	0	3.6	V
V _{OUT}	Output Voltage Active Mode	0	V _{CC}	V
T _A	Operating Free–Air Temperature		+125	°C
$\Delta t / \Delta V$	Input Transition Rise or Fail Rate V_{CC} = 3.3 V \pm 0.3 V	0	10	nS/V

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

DC ELECTRICAL CHARACTERISTICS

						T _A = 25°	с	⊤7 –55°C to	∖ = o +125°C	
Symbol	Parameter	c	onditions	V _{CC} (V)	Min	Тур	Max	Min	Max	Uni
V _{IH}	High-Level			0.9	V _{CC}			V _{CC}		V
	Input Voltage			1.1 to 1.3	0.7 x V _{CC}			0.7 x V _{CC}		
				1.4 to 1.6	0.65 x V _{CC}			0.65 x V _{CC}		
				1.65 to 1.95	0.65 x V _{CC}			0.65 x V _{CC}		
				2.3 to 2.7	1.7			1.7		
				3.0 to 3.6	2.0			2.0		
V _{IL}	Low-Level			0.9			GND		GND	V
	Input Voltage			1.1 to 1.3			0.3 x V _{CC}		0.3 x V _{CC}	
				1.4 to 1.6			0.35 x V _{CC}		0.35 x V _{CC}	
				1.65 to 1.95			0.35 x V _{CC}		0.35 x V _{CC}	
				2.3 to 2.7			0.7		0.7	
				3.0 to 3.6			0.8		0.8	1
V _{OH}	High-Level	V _{IN} =	$I_{OH} = -20 \ \mu A$	0.9	0.75			0.75		V
	Output V _{IH} or Voltage V _{IL}	V _{IH} or V _{IL}	I _{OH} = -0.3 mA	1.1 to 1.3	0.75 x V _{CC}			0.75 x V _{CC}		
			I _{OH} = -1.7 mA	1.4 to 1.6	0.75 x V _{CC}			0.75 x V _{CC}		
			I _{OH} = -3.0 mA	1.65 to 1.95	V _{CC} – 0.45			V _{CC} – 0.45		
			I _{OH} = -4.0 mA	2.3 to 2.7	2.0			2.0		1
			I _{OH} = -8.0 mA	3.0 to 3.6	2.48			2.48		1
V _{OL}	Low-Level	V _{IN} =	I _{OL} = 20 μA	0.9			0.1		0.1	V
	Output Voltage	V _{IH} or V _{IL}	I _{OL} = 0.3 mA	1.1 to 1.3			0.25 x V _{CC}		0.25 x V _{CC}	
			I _{OL} = 1.7 mA	1.4 to 1.6			0.25 x V _{CC}		0.25 x V _{CC}	
			I _{OL} = 3.0 mA	1.65 to 1.95			0.45		0.45	
			I _{OL} = 4.0 mA	2.3 to 2.7			0.4		0.4	
			I _{OL} = 8.0 mA	3.0 to 3.6			0.4		0.4	
I _{IN}	Input Leakage Current	0 ≤	$0 \le V_{IN} \le 3.6 V$				±0.1		±0.5	μΑ
I _{CC}	Quiescent Supply Current	V _{IN} =	$V_{IN} = V_{CC}$ or GND				0.5		10	μ
I _{OZ}	3–State Output Leakage Current	V _{IN} V _{OU}	= V _{IH} or V _{IL} ; _T = 0 to 3.6 V	0.9 to 3.6			0.1		1	μ

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.

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = 3.0$ ns)

					T _A = 25 °C		T/ –55°C to	₄ = o +125°C	
Symbol	Parameter	Test Condition	V _{CC} (V)	Min	Тур	Max	Min	Max	Uni
t _{PLH} ,	Propagation Delay,	$C_{L} = 10 \text{ pF},$	0.9	-	15.3	-	-	-	ns
t _{PHL}	D to Q	$R_{L} = 1 M\Omega$	1.1 to 1.3	-	6.3	12.3	1.0	14.4	
			1.4 to 1.6	-	4.4	8.1	1.0	9.4	
			1.65 to 1.95	-	3.6	6.2	0.5	6.7	
			2.3 to 2.7	_	2.6	3.9	0.5	4.4	
			3.0 to 3.6	-	2.1	3.1	0.5	3.7	
		C _L = 15 pF, R _L = 1 MΩ	0.9	_	17.7	-	-	-	n
		$R_L = 1 M\Omega$	1.1 to 1.3	_	7.1	13.6	1.0	15.6	
			1.4 to 1.6	_	5.0	9.2	1.0	10.4	
			1.65 to 1.95	_	4.1	6.9	1.0	7.1	
			2.3 to 2.7	_	2.9	4.4	0.5	5.0	
			3.0 to 3.6	_	2.4	3.4	0.5	3.9	
		$C_L = 30 \text{ pF},$ $R_L = 1 \text{ M}\Omega$	0.9	_	29	-	-	-	n
	$R_L = 1 M\Omega$	1.1 to 1.3	_	9.3	17.3	1.0	21.2		
		1.4 to 1.6	_	6.4	11.6	1.0	12.6		
		1.65 to 1.95	_	5.3	9.1	1.0	9.6		
			2.3 to 2.7	_	4	5.7	1.0	6.1	
			3.0 to 3.6	-	3.3	4.4	1.0	4.8	
t _{PLH} ,	Propagation Delay,	C _L = 10 pF,	0.9	_	15.3	-	-	-	n
t _{PHL}	LE to Q	$R_{L}^{-} = 1 M\Omega$	1.1 to 1.3	_	6.3	12.3	1.0	14.4	
			1.4 to 1.6	_	4.4	8.1	1.0	9.4	
			1.65 to 1.95	_	3.6	6.2	0.5	6.7	
			2.3 to 2.7	-	2.6	3.9	0.5	4.4	1
			3.0 to 3.6	_	2.1	3.1	0.5	3.7	
		C _L = 15 pF,	0.9	_	17.7	-	-	-	n
		$R_{L} = 1 M\Omega$	1.1 to 1.3	-	7.1	13.6	1.0	15.6	
			1.4 to 1.6	_	5.0	9.2	1.0	10.4	
			1.65 to 1.95	_	4.1	6.9	1.0	7.1	1
			2.3 to 2.7	_	2.9	4.4	0.5	5.0	
			3.0 to 3.6	_	2.4	3.4	0.5	3.9	
		$C_{L} = 30 \text{pF},$	0.9	-	29	-	-	-	n
		$R_{L}^{-} = 1 M\Omega$	1.1 to 1.3	-	9.3	17.3	1.0	21.2	
			1.4 to 1.6	-	6.4	11.6	1.0	12.6	
		_	1.65 to 1.95	-	5.3	9.1	1.0	9.6	
			2.3 to 2.7	-	4	5.7	1.0	6.1	1
			3.0 to 3.6	-	3.3	4.4	1.0	4.8	1

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = 3.0$ ns)

					T _A = 25 °C		T/ –55°C te	_A = o +125°C	
Symbol	Parameter	Test Condition	V _{CC} (V)	Min	Тур	Max	Min	Max	Unit
			0.9	-	18.9	-	-	-	
			1.1 to 1.3	-	6.0	10.2	1	10.6	
		$C_{L} = 10 \text{pE}$	1.4 to 1.6	-	4.5	6.5	1	7.0	
	$C_L = 10 \text{ pF},$ $R_L = 5 \text{ k}\Omega$	1.65 to 1.95	-	3.9	5.4	1	5.8	ns	
			2.3 to 2.7	-	2.5	3.5	1	3.8	
			3.0 to 3.6	_	2.1	2.7	1	3	
			0.9	-	22	-	-	-	
			1.1 to 1.3	_	6.8	11.6	1	12.1	
			1.4 to 1.6	-	5.1	7.2	1	7.9	
t _{PZH} , t _{PZL}	Output Enable Time, OE to Q	$C_L = 15 \text{ pF},$ $R_L = 5 \text{ k}\Omega$	1.65 to 1.95	-	4.4	6.1	1	6.5	ns
			2.3 to 2.7	_	2.9	3.9	1	4.2	
			3.0 to 3.6	_	2.3	3	1	3.3	
			0.9	_	31.8	-	-	-	
			1.1 to 1.3	_	9.1	15.7	1	16.2	
			1.4 to 1.6	_	6.7	9.5	1	10.5	
		$C_L = 30 \text{ pF},$ $R_L = 5 \text{ k}\Omega$	1.65 to 1.95	_	5.7	7.9	1	8.6	ns
			2.3 to 2.7	_	3.8	5	1	5.5	
			3.0 to 3.6	_	2.9	3.8	1	4.2	1
			0.9	_	11.3	-	-	_	
			1.1 to 1.3	_	5.3	8.3	1	8.4	
			1.4 to 1.6	_	4.1	5.8	1	6.1	ns
		$C_L = 10 \text{ pF},$ $R_L = 5 \text{ k}\Omega$	1.65 to 1.95	_	4.2	5.7	1	5.9	
			2.3 to 2.7	_	3.0	4	1	4.2	
			3.0 to 3.6	_	3.4	4.7	1	5	
			0.9	_	11	_	-	_	
			1.1 to 1.3	_	5.8	8.2	1	11	
			1.4 to 1.6	_	3.9	5.9	1	8	1
t _{PHZ} , t _{PLZ}	Output Disable Time, _{OE} to Q	$C_L = 15 \text{ pF},$ $R_L = 5 \text{ k}\Omega$	1.65 to 1.95	_	4.5	6.6	1	7.4	ns
			2.3 to 2.7	_	3.2	4.3	1	5.1	
			3.0 to 3.6	_	4.8	6.2	1	6.7	
			0.9	_	17.7	_	_	_	1
			1.1 to 1.3	_	9.9	15.7	1	16	1
			1.4 to 1.6	_	7.7	10.8	1	11.6	1
		$C_L = 30 \text{ pF},$ $R_L = 5 \text{ k}\Omega$	1.65 to 1.95	_	6	12.9	1	12.9	ns
			2.3 to 2.7	_	5	9.1	1	9.5	
			3.0 to 3.6	_	4	12.5	1	13	1

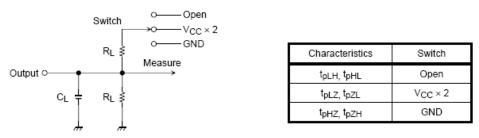
AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = 3.0 \text{ ns}$)

				T _A = 25 °C			T _A = –55°C to +125°C		
Symbol	Parameter	Test Condition	V _{CC} (V)	Min	Тур	Max	Min	Max	Unit
C _{IN}	Input Capacitance		0 to 3.6		1.5	-	-	-	pF
C _O	Output Capacit- ance	V _O = GND	0		3	-	-	-	pF
		f =10 MHz;	0.9	-	1.6	-		-	
			1.1 to 1.3	-	1.7	-		-	
	Power dissipation		1.4 to 1.6	-	1.8	-		-	
C _{PD} Capacitance (Note 5)	V _I = GND to V _{CC}	1.65 to 1.95	-	1.9	-		-	pF	
		2.3 to 2.7	-	2.2	-		-	1	
		3.0 to 3.6	-	2.7	-		-	1	

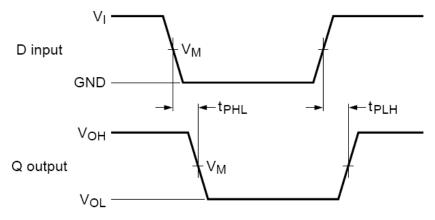
5. C_{PD} is defined as the value of the internal equivalent capacitance which is calculated from the dynamic operating current consumption without load. Average operating current can be obtained by the equation $I_{CC(OPR)} = C_{PD} \bullet V_{CC} \bullet f_{in} + I_{CC}$. C_{PD} is used to determine the no-load dynamic power consumption: $P_D = C_{PD} \bullet V_{CC}^2 \bullet f_{in} + I_{CC} \bullet V_{CC}$.

					T _A = 25 °C	;	T _A −55°C to	= +125°C	
Symbol	Parameter	Test Condition	V _{CC} (V)	Min	Тур	Max	Min	Max	Unit
			0.9	-	4.0	-	-	-	
			1.1 to 1.3	-	0.7	-	2.1	_	
t _W Pulse Width, LE			1.4 to 1.6	-	0.5	-	1.3	_	
	High	1.65 to 1.95	_	0.4	-	1.0	-	ns	
		2.3 to 2.7	-	0.3	_	0.8	-		
			3.0 to 3.6	-	0.2	-	0.8	-	
		High or Low	0.9	-	2.1	-	-	_	ns
			1.1 to 1.3	-	0.5	-	2.7	_	
			1.4 to 1.6	-	0.3	-	1.5	_	
t _{SU}	Set–Up Time, D to LE		1.65 to 1.95	-	0.3	-	1.2	-	
			2.3 to 2.7	-	0.2	-	0.9	-	
			3.0 to 3.6	-	0.2	-	0.7	_	
			0.9	-	-2.8	-	-	_	
			1.1 to 1.3	-	-0.7	-	-0.1	_	
			1.4 to 1.6	-	-0.4	-	-0.1	_	
t _H	Hold Time D to LE	High or Low	1.65 to 1.95	-	-0.4	-	0	-	ns
			2.3 to 2.7	-	-0.3	-	0.2	-	
			3.0 to 3.6	-	-0.4	-	0.3	-	

TIMING REQUIREMENTS (Input $t_r = t_f = 3.0$ ns; $C_L = 5$ pF, 10 pF, 15 pF and 20 pF)

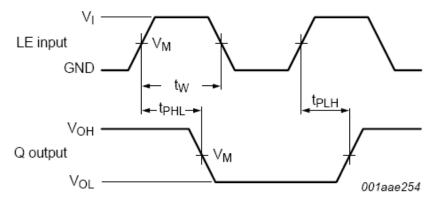






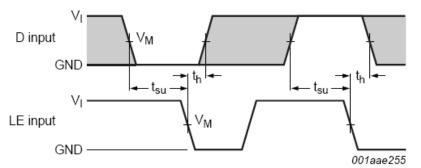
Logic levels: $V_{\mbox{OL}}$ and $V_{\mbox{OH}}$ are typical output voltage levels that occur with the output load.

Figure 4. t_{PLH}, t_{PHL} Waveforms (D to Q)



Logic levels: $V_{\mbox{OL}}$ and $V_{\mbox{OH}}$ are typical output voltage levels that occur with the output load.

Figure 5. t_{PLH} , t_{PHL} , t_W Waveforms (LE to Q)

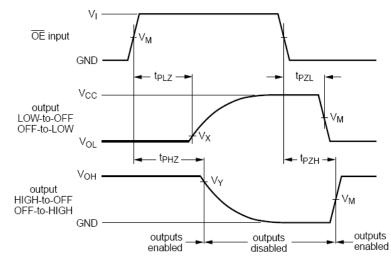


Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Figure 6. t_{SU}, t_H Waveforms (D to LE)

MEASUREMENT POINTS FOR FIGURES 4, 5 AND 6

Supply Voltage			Output	
V _{CC}	V _M	V _M		
0.9 V to 3.6 V	0.5 x V _{CC}	V _{CC}	\leq 3.0 ns	0.5 x V _{CC}



Logic levels: $V_{\mbox{OL}}$ and $V_{\mbox{OH}}$ are typical output voltage levels that occur with the output load.

Figure 7.	t _{PLZ} , t _{PHZ} ,	t _{PZH} , t _{PZL}	Waveforms	(OE to Q)
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MEASUREMENT POINTS FOR FIGURE 7

Supply Voltage		Input			Output				
V _{cc}	V _M	VI	t _r = t _f	V _M	V _X	V _Y			
0.9 V	0.5 x V _{CC}	V _{CC}	≤ 3.0 ns	0.5 x V _{CC}	V _{OL} + 0.1 V	V _{OH} – 0.1 V			
1.1 V to 1.3 V	0.5 x V _{CC}	V _{CC}	≤ 3.0 ns	0.5 x V _{CC}	V _{OL} + 0.1 V	V _{OH} – 0.1 V			
1.4 V to 1.6 V	0.5 x V _{CC}	V _{CC}	≤ 3.0 ns	0.5 x V _{CC}	V _{OL} + 0.1 V	V _{OH} – 0.1 V			
1.65 V to 1.95 V	0.5 x V _{CC}	V _{CC}	≤ 3.0 ns	0.5 x V _{CC}	V _{OL} + 0.15 V	V _{OH} – 0.15 V			
2.3 V to 2.7 V	0.5 x V _{CC}	V _{CC}	≤ 3.0 ns	0.5 x V _{CC}	V _{OL} + 0.15 V	V _{OH} – 0.15 V			
3.0 V to 3.6 V	0.5 x V _{CC}	V _{CC}	≤ 3.0 ns	0.5 x V _{CC}	V _{OL} + 0.3 V	V _{OH} – 0.3 V			

ORDERING INFORMATION

Device	Package	Shipping [†]	
NL17SG373DFT2G	SC-88 / SOT-363 / SC-70-6 (Pb-Free)	3000 / 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.

MiniGate is a trademark of Semiconductor Components Industries, LLC (SCILLC).

0.043

0.004





- XXX = Specific Device Code

(Note: Microdot may be in either location)

*Date Code orientation and/or position may vary depending upon manufacturing location.

*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.



DIMENSIONS: MILLIMETERS

*For additional information on our Pb-Free strategy and soldering

details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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SC-88/SC70-6/SOT-363 CASE 419B-02 ISSUE Y

DATE 11 DEC 2012

STYLE 1: PIN 1. EMITTER 2 2. BASE 2 3. COLLECTOR 1 4. EMITTER 1 5. BASE 1 6. COLLECTOR 2	STYLE 2: CANCELLED	STYLE 3: CANCELLED	STYLE 4: PIN 1. CATHODE 2. CATHODE 3. COLLECTOR 4. EMITTER 5. BASE 6. ANODE	STYLE 5: PIN 1. ANODE 2. ANODE 3. COLLECTOR 4. EMITTER 5. BASE 6. CATHODE	STYLE 6: PIN 1. ANODE 2 2. N/C 3. CATHODE 1 4. ANODE 1 5. N/C 6. CATHODE 2
STYLE 7: PIN 1. SOURCE 2 2. DRAIN 2 3. GATE 1 4. SOURCE 1 5. DRAIN 1 6. GATE 2	STYLE 8: CANCELLED	STYLE 9: PIN 1. EMITTER 2 2. EMITTER 1 3. COLLECTOR 1 4. BASE 1 5. BASE 2 6. COLLECTOR 2	STYLE 10: PIN 1. SOURCE 2 2. SOURCE 1 3. GATE 1 4. DRAIN 1 5. DRAIN 2 6. GATE 2	STYLE 11: PIN 1. CATHODE 2 2. CATHODE 2 3. ANODE 1 4. CATHODE 1 5. CATHODE 1 6. ANODE 2	STYLE 12: PIN 1. ANODE 2 2. ANODE 2 3. CATHODE 1 4. ANODE 1 5. ANODE 1 6. CATHODE 2
STYLE 13:	STYLE 14:	STYLE 15:	STYLE 16:	STYLE 17:	STYLE 18:
PIN 1. ANODE	PIN 1. VREF	PIN 1. ANODE 1	PIN 1. BASE 1	PIN 1. BASE 1	PIN 1. VIN1
2. N/C	2. GND	2. ANODE 2	2. EMITTER 2	2. EMITTER 1	2. VCC
3. COLLECTOR	3. GND	3. ANODE 3	3. COLLECTOR 2	3. COLLECTOR 2	3. VOUT2
4. EMITTER	4. IOUT	4. CATHODE 3	4. BASE 2	4. BASE 2	4. VIN2
5. BASE	5. VEN	5. CATHODE 2	5. EMITTER 1	5. EMITTER 2	5. GND
6. CATHODE	6. VCC	6. CATHODE 1	6. COLLECTOR 1	6. COLLECTOR 1	6. VOUT1
STYLE 19:	STYLE 20:	STYLE 21:	STYLE 22:	STYLE 23:	STYLE 24:
PIN 1. I OUT	PIN 1. COLLECTOR	PIN 1. ANODE 1	PIN 1. D1 (i)	PIN 1. Vn	PIN 1. CATHODE
2. GND	2. COLLECTOR	2. N/C	2. GND	2. CH1	2. ANODE
3. GND	3. BASE	3. ANODE 2	3. D2 (i)	3. Vp	3. CATHODE
4. V CC	4. EMITTER	4. CATHODE 2	4. D2 (c)	4. N/C	4. CATHODE
5. V EN	5. COLLECTOR	5. N/C	5. VBUS	5. CH2	5. CATHODE
6. V REF	6. COLLECTOR	6. CATHODE 1	6. D1 (c)	6. N/C	6. CATHODE
STYLE 25:	STYLE 26:	STYLE 27:	STYLE 28:	STYLE 29:	STYLE 30:
PIN 1. BASE 1	PIN 1. SOURCE 1	PIN 1. BASE 2	PIN 1. DRAIN	PIN 1. ANODE	PIN 1. SOURCE 1
2. CATHODE	2. GATE 1	2. BASE 1	2. DRAIN	2. ANODE	2. DRAIN 2
3. COLLECTOR 2	3. DRAIN 2	3. COLLECTOR 1	3. GATE	3. COLLECTOR	3. DRAIN 2
4. BASE 2	4. SOURCE 2	4. EMITTER 1	4. SOURCE	4. EMITTER	4. SOURCE 2
5. EMITTER	5. GATE 2	5. EMITTER 2	5. DRAIN	5. BASE/ANODE	5. GATE 1
6. COLLECTOR 1	6. DRAIN 1	6. COLLECTOR 2	6. DRAIN	6. CATHODE	6. DRAIN 1

Note: Please refer to datasheet for style callout. If style type is not called out in the datasheet refer to the device datasheet pinout or pin assignment.

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