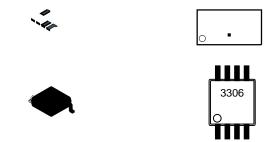
onsemi



(Note: Microdot may be in either location)

MAXIMUM RATINGS

Symbol	Parameter	Value	Unit		
V _{CC}	DC Supply Voltage		-0.5 to +7.0	V	
V _{IN}	Control Pin Input Voltage	-0.5 to +7.0	V		
V _{I/O}	Switch Input / Output Voltage		-0.5 to +7.0	V	
۱ _{IK}	Control Pin DC Input Diode Current	V _{IN} < GND	-50	mA	
Ι _{ΟΚ}	Switch I/O Port DC Diode Current	V _{I/O} < GND	-50	mA	
Ι _Ο	ON-State Switch Current		±128	mA	
	Continuous Current Through V_{CC} or GND		±150	mA	
I _{CC}	DC Supply Current Per Supply Pin		±150	mA	
I _{GND}	DC Ground Current per Ground Pin		±150	mA	
T _{STG}	Storage Temperature Range		-65 to +150	С	
ΤL	Lead Temperature, 1 mm from Case for 10 Seconds	5	260	С	
TJ	Junction Temperature Under Bias		150	С	
θ_{JA}	Thermal Resistance	UDFN8 (Note 1) Micro8 TSSOP8	111 392 150	C/W	
P _D	Power Dissipation in Still Air at 85 C	UDFN8 Micro8 TSSOP8	1127 319 833	mW	
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 (Note 2) Human E Human Body Mod Human Body N	> 1.5 > 4 > 4	kV kV kV		
ILATCHUP	Latchup Performance Above V _{CC} and Below GND a	it 125 C (Note 3)	±100	mA	

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device

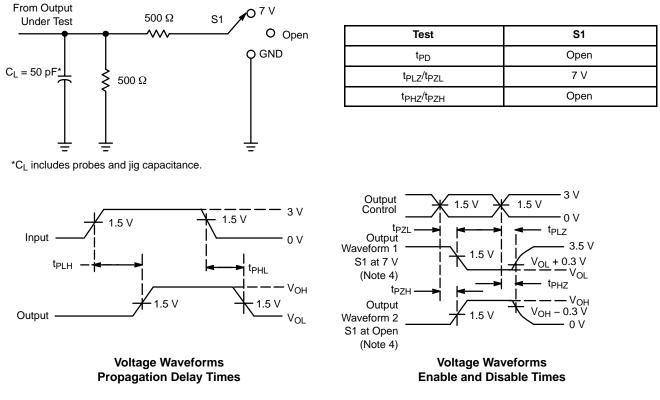
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DC ELECTRICAL CHARACTERISTICS

			V _{CC}	T _A = 25°C			T _A = –55°C to +125°C		
Symbol	Parameter	Conditions	(V)	Min	Тур	Max	Min	Max	Unit
V _{IK}	Clamp Diode Voltage	$I_{I/O} = -18 \text{ mA}$	4.5			-1.2		-1.2	V
V _{IH}	High–Level Input Voltage (Control)		4.0 to 5.5	2.0			2.0		V
V _{IL}	Low–Level Input Voltage (Control)		4.0 to 5.5			0.8		0.8	V
V _{OH}	Output Voltage High	See Figure 4							
I _{IN}	Input Leakage Current	$0 \le V_{IN} \le 5.5 V$	5.5			±0.1		±1.0	μΑ
I _{OFF}	Power Off Leakage Current	$V_{I/O} = 0$ to 5.5 V	0			±0.1		±1.0	μΑ
I _{CC}	Quiescent Supply Current	$I_{O} = 0,$ $V_{IN} = V_{CC} \text{ or } 0 \text{ V}$	-	-	-	-	-	-	-

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AC LOADING AND WAVEFORMS



Parameter Measurement Information

- 4. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control
- 5. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, Z_O = 50 Ω , t_r \leq 2.5 ns, t_f \leq 2.5 ns. 6. The outputs are measured one at a time, with one transition per measurement.
- 7. t_{PLZ} and t_{PHZ} are the same as t_{DIS}.
- 8. t_{PZL} and t_{PZH} are the same as t_{EN} . 9. t_{PHL} and t_{PLH} are the same as t_{PD} .



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ORDERING INFORMATION

Device

Package

Shipping

SCALE 4:1

DATE 08 NOV 2006

- NOTES:
 DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS.
 DIMENSION & APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 mm FROM TERMINAL TIP.
 MOLD FLASH ALLOWED ON TERMINALS ALONG EDGE OF PACKAGE, FLASH MAY NOT EXCEED 0.03 ONTO BOTTOM SURFACE OF TERMINALS.
 DETAIL A SHOWS OPTIONAL CONSTRUCTION FOR TERMINALS.

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