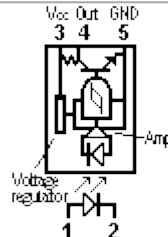
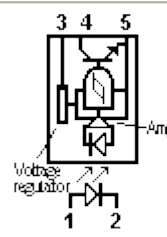


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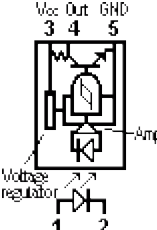
Optical Switches: Schmitt Trigger

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970N 970T 971N 971T: Schmitt Trigger

Charact.	Test Condition	ISTS	970N	970T	971N	971T
			PKG8 	PKG9 	PKG8 	PKG9 
Diagram						
Vf	If = 20 mA, Ta = 25°C	MAX	1.7 V			
Ir	Vr = 2 V, Ta = 25°C	MAX	100 nA			
Vcc		MIN-MAX	4.75-5.25 V			
Iccl	Vcc = 5.25 V, If = 0	MAX	15 mA			
Icch	Vcc = 5.25 V, If = 15 mA	MAX	15 mA			
Vol	Vcc = 4.75 V, Icl = 12.8 mA, If = 0	MAX	0.4 V			
Voh	Vcc = 4.75 V, loh = 800 µA, If = 15 mA	MIN	2.4 V		-	
loh	Vcc = 4.75 V, Voh = 30 V, If = 15 mA	MAX	-		100 µA	
If(+)	Vcc = 5 V	MAX	15 mA			
tr trf	Vcc = 5 V, Ta = 25°C	TYP	70 ns			
Ios	Vcc = 5.25 V, If = 20 mA, O/P-GND	MIN-MAX	-30 to -100mA			
tplh, tphl	Vcc = 5 V, If = 0	MAX	5 µs			
GAP		NOM	0.125 in			
Charact.	Test Condition	ISTS	970N	970T	971N	971T

2001 2002 2003: Schmitt Trigger

	Test Condition	ISTS	2001	2002	2003
			PKG9 		
Vf	If = 20 mA	MAX	1.5 V		
Ir	Vr = 3 V	MAX	10 μ A		
Vol	Note 3	MIN-MAX	0.1-0.4 V		
Voh	Io = 16 mA, -40 CTA, 100°C	MIN	Vcc		
tphl	If = 10 mA, Cl = 50 pF, RI = 390 ohm	MIN-MAX	0.5-5 μ s		
tphl		MAX	1.5-5 μ s		
tr	Cl = 50 pF, RI = 390 ohm, Vcc = 5 V	MIN-MAX	40-180 ns		
tf		MIN-MAX	4-15 ns		
Ift	Ta=-40°C, RI = 390 ohm, Vcc = 5 V	MAX	10 mA	20 mA	
Hysteresis	Vcc = 5 V	MIN-MAX	5-30 %		
GAP		NOM	0.125 in		

Similar Circuits

