## DH0011A

DH0011A High Voltage High Current Driver



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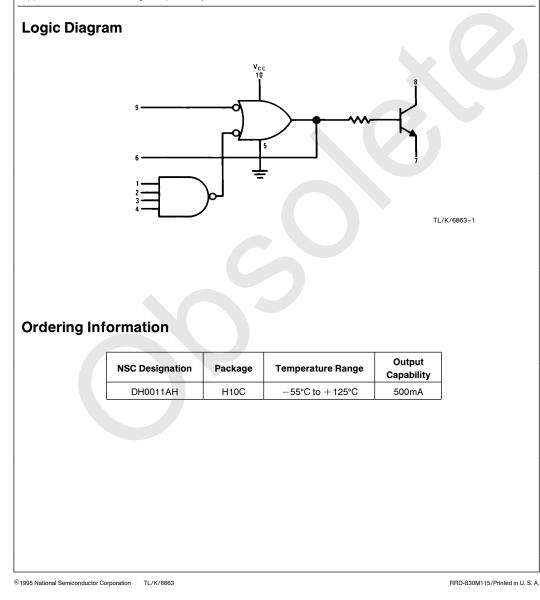
## **General Description**

The DH0011A High Voltage, High Current Driver family consists of hybrid integrated circuits which provide a wide range of variations in temperature range, package, and output current drive capability.

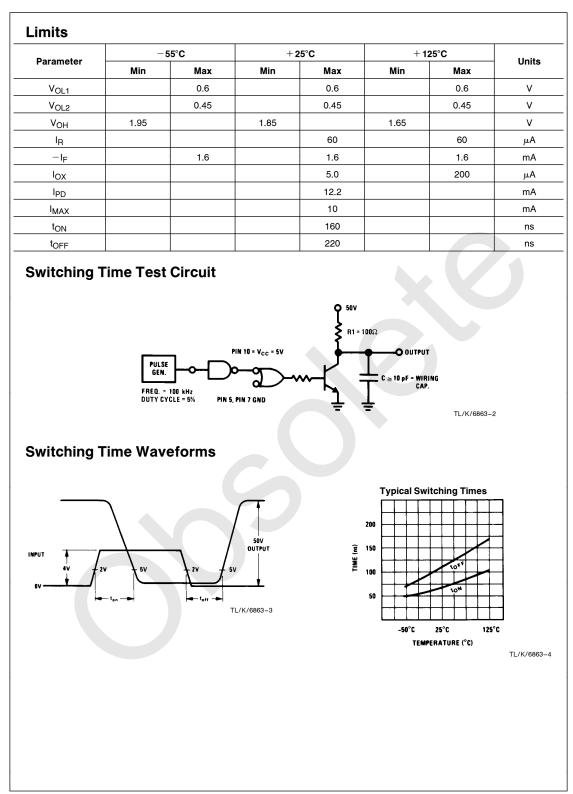
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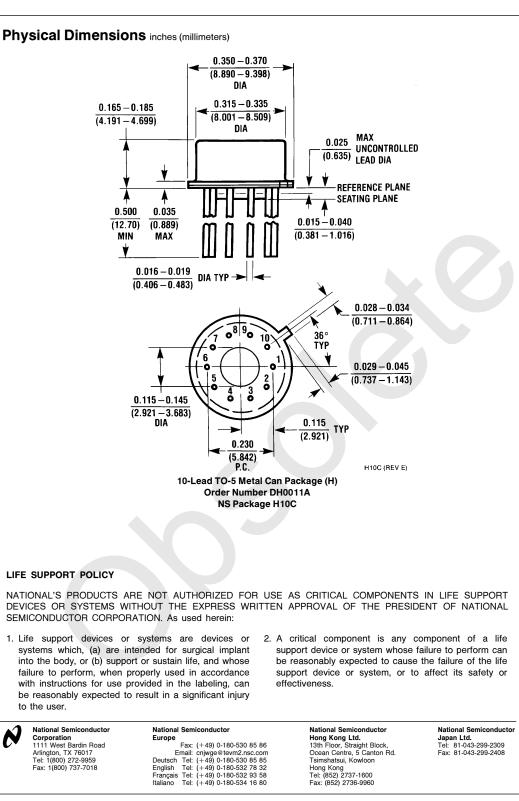
other devices requiring several hundred milliamp currents at voltages up to 50V. Logic flexibility is provided through a 4-input NAND gate, a NOR input and an input which bypasses the gating and connects to the base of the output transistor.

Applications include driving lamps, relays, cores, and



V <sub>CC</sub> Collector Input Rev					1.(	8V 50V 0 mA	Opera	r Dissipati Iting Tem ge Tempe	perature l	Range		80 5°C to + 5°C to +	
Elect	rical C	harad	terist	ics									
Test Pin	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Sense	Min	Max
1	VIH	VIH	VIH	$V_{\text{IH}}$	GND		GND	I <sub>OL1</sub>		V <sub>CC</sub>	V <sub>8</sub>		V <sub>OL</sub>
2	VIL				GND		GND	I <sub>OL1</sub>	V <sub>IL</sub>	V <sub>CC</sub>	V <sub>8</sub>		V <sub>OL</sub>
3	VIL				GND	I <sub>OL2</sub>				V <sub>CC</sub>	V <sub>6</sub>		V <sub>OL</sub>
4		VIL			GND	I <sub>OL2</sub>				V <sub>CC</sub>	V <sub>6</sub>		V <sub>OL</sub>
5			V <sub>IL</sub>		GND	I <sub>OL2</sub>				V <sub>CC</sub>	V <sub>6</sub>		V <sub>OL</sub>
6				$V_{IL}$	GND	I <sub>OL2</sub>				V <sub>CC</sub>	V <sub>6</sub>		V <sub>OL</sub>
7				GND	GND	I <sub>OL2</sub>			VIH	V <sub>CC</sub>	V <sub>6</sub>		VOL
8	VR	GND	GND	GND	GND					V <sub>CC</sub>	Ч		IR
9	GND	V <sub>R</sub>	GND	GND	GND					Vcc	l <sub>2</sub>		۱ <sub>R</sub>
10	GND	GND	V <sub>R</sub>	GND	GND					V <sub>CC</sub>	l <sub>3</sub>		I <sub>R</sub>
11	GND	GND	GND	V <sub>R</sub>	GND					V <sub>CC</sub>	I <sub>4</sub>		IR
12					GND				V <sub>R</sub>	V <sub>CC</sub>	lg		I <sub>R</sub>
13	VF	V <sub>R</sub>	V <sub>R</sub>	V <sub>R</sub>	GND					V <sub>CC</sub>	Ч		— I <sub>F</sub>
14	VR	VF	V <sub>R</sub>	V <sub>R</sub>	GND					V <sub>CC</sub>	l <sub>2</sub>		— I <sub>F</sub>
15	VR	V <sub>R</sub>	V <sub>F</sub>	V <sub>R</sub>	GND					V <sub>CC</sub>	l <sub>3</sub>		— I <sub>F</sub>
16	V <sub>R</sub>	V <sub>R</sub>	V <sub>R</sub>	V <sub>F</sub>	GND					Vcc	I4		— I <sub>F</sub>
17				GND	GND				V <sub>F</sub>	Vcc	lg		— I <sub>F</sub>
18					GND		GND			Vcc	V <sub>6</sub>	V <sub>OH</sub>	
19	GND				GND		GND	Vox		V <sub>CC</sub>	l <sub>8</sub>		IOX
20					GND					V <sub>PD</sub>	I <sub>10</sub>		IPD
21	GND				GND					V <sub>MAX</sub>	I <sub>10</sub>		IMA
22*					GND					V <sub>PD</sub>			t <sub>ON</sub>
23*					GND					V <sub>PD</sub>			tOFF
*See Test (	Circuits and	Waveforms									I		
Forci	ng Fu	nctior	าร										
Ра	rameter			– 55°C		+	25°C		+ 1	25°C		Units	
												V	
	V <sub>CC</sub>			5.0			5.0		5	5.0		۷	
V <sub>PD</sub>					5.0					V			
V <sub>MAX</sub>					8.0					V			
V <sub>IL</sub>		0.85			0.85			0.85		V			
V <sub>IH</sub>		1.9			1.8			1.6		V			
V <sub>R</sub>		4.5			4.5			4.5		V			
V <sub>F</sub>		0.45			0.45			0.45		V			
I <sub>OL1</sub>		400			400			400		mA			
I <sub>OL2</sub>			20		20			20		mA			
V <sub>OX</sub> 50.0		50.0	5		50.0		50.0		V				





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