

absolute maximum ratings

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Continuous Supply Voltage	45∨
Instantaneous Peak Supply Voltage	
(Pin 1 to Ground for 0.1 sec)	60V
Input Voltage	5.5V
Expander Input Current	5.0 mA
Peak Output Current (1 ms ON/10 ms OFF)	6.5A
Continuous Output Current NH0028C at 25°C	750 mA
NH0028CN at 25°C	1000 mA
Operating Temperature	0°C to 70°C
Storage Temperature	-65° to +175°C
Lead Soldering Temperature (10 sec)	300°C

electrical characteristics (Note 1)

PARAMETER	CONDITIONS	MIN	TYP (Note 1)	МАХ	UNITS
Logical "1" Input Voltage	V _{CC} = 10V to 45V	2.0			v
Logical "O" Input Voltage	V _{CC} = 10V to 45V			0.8	v
Logical ''0'' Input Current	V _{CC} = 45V, V _{IN} = 0.4V		0.8	1.0	mA
Logical "1" Input Current	V _{CC} = 45V, V _{IN} = 2.4V V _{CC} = 45V, V _{IN} = 5.5V		0.5	5.0 100.0	μΑ μΑ
Logical "1" Output Voltage	$V_{CC} = 45V, V_{IN} = 2.0V, \\ I_{OUT} = 1.6A \\ V_{CC} = 36V, V_{IN} = 2.0V,$	43.0	43.5		v
	1 _{αυτ} = 5A (Note 2)	33.5	34.0		v
Logical "0" Output Voltage	V _{CC} = 45V, R _L = 1k, V _{IN} = 0.8V		.020	100	v
OFF Power Supply Current	V _{CC} = 45V, V _{IN} = 0.0V		1.6	2.0	mA
Rise Time (10% to 90%)	V _{CC} = 45V, R _L = 39Ω V _{IN} = 5.0V peak, PRF = 1 kHz		0.2		μs
Fall Time (90% to 10%)	V _{CC} = 45V, R _L = 39Ω V _{IN} = 5.0V peak, PRF = 1 kHz		3.0		μs
T _{ON}	V _{CC} = 45V, R _L = 39Ω V _{IN} = 5.0V peak, PRF = 1 kHz		0.4	e F	μs
T _{OFF}	V _{CC} = 45V, R _L = 39Ω V _{IN} = 5.0V peak, PRF = 1 kHz		7.0		μs

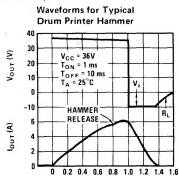
Note 1: These specifications apply for ambient temperatures from 0°C to 70°C unless otherwise specified. All typical values are for 25°C ambient. \rightarrow

specified. All typical values are for 25°C ambient. Note 2: Measurement made at 1 ms ON and 10 ms OFF.

Note 3: Power ratings for the NH0028C are based on a maximum junction temperature of 175°C and a thermal resistance of 210°C/W.

Note 4: Power ratings for the NH0028CN are based on a maximum junction temperature of 175°C and a thermal resistance of 150°C/W.

typical performance characteristics



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