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Absolute Maximum Ratings(Note 1)

Supply Voltage	7V
Input Voltage	7V
Operating Free Air Temperature Range	0°C to +70°C
Storage Temperature Range	-65°C to +150°C
Typical θ _{JA}	
N Package	84.0°C/W
M Package	114.0°C/W

Note 1: Note: The "Absolute Maximum Ratings" are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the Electrical Characteristics tables are not guaranteed at the absolute maximum ratings. The "Recommended Operating Conditions" table will define the conditions for actual device operation.

Recommended Operating Conditions

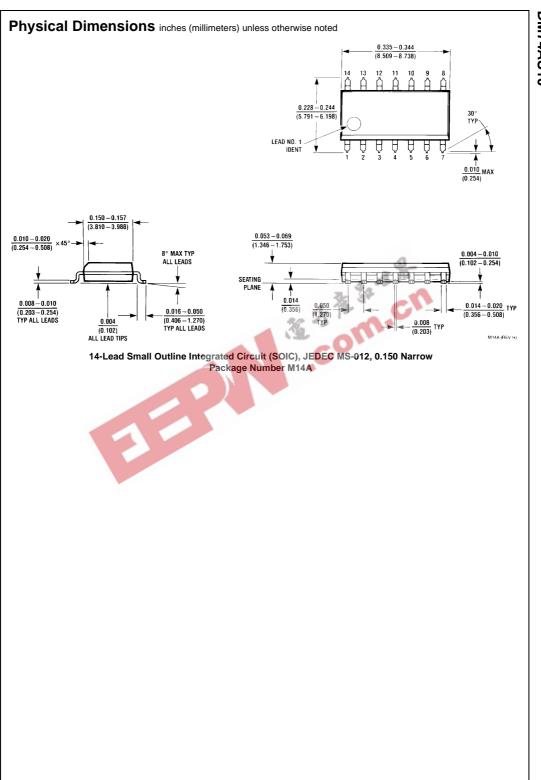
Symbol	Parameter	Min	Nom	Max	Units
V _{CC}	Supply Voltage	4.5	5	5.5	V
V _{IH}	HIGH Level Input Voltage	2			V
/ _{IL}	LOW Level Input Voltage			0.8	V
он	HIGH Level Output Current			-2	mA
OL	LOW Level Output Current		A 18 14	20	mA
Γ _A	Free Air Operating Temperature	0 🛪	5	70	°C
Electrica	al Characteristics	38 3 T			

Electrical Characteristics

Symbol	Parameter	Condition	ons	Min	Тур	Max	Units
V _{IK}	Input Clamp Voltage	$V_{CC} = 4.5 V$, $I_I = -18 mA$				-1.2	V
V _{OH}	HIGH Level	I _{OH} = -2 mA		V _{CC} – 2			V
	Output Voltage	V _{CC} = 4.5V to 5.5V					v
V _{OL}	LOW Level	$V_{CC} = 4.5V$		0.25	0.35	0.5	V
	Output Voltage	$I_{OL} = 20 \text{ mA}$	0.55	0.5	v		
I _I	Input Current @ Max Input Voltage	V _{CC} = 5.5V, V _{IH} = 7V				0.1	mA
IIH	HIGH Level Input Current	$V_{CC} = 5.5 V, V_{IH} = 2.7 V$				20	μA
I _{IL}	LOW Level Input Current	$V_{CC} = 5.5 V, V_{IL} = 0.4 V$				-0.5	mA
I _O	Output Drive Current	$V_{CC} = 5.5 V, V_{O} = 2.25 V$		-30		-112	mA
I _{CC}	Supply Current	V _{CC} = 5.5V	Outputs HIGH		1.5	2.4	mA
			Outputs LOW		8.1	13	mA

Switching Characteristics

over recommended operating free air temperature range							
Symbol	Parameter	Conditions	Min	Max	Units		
t _{PLH}	Propagation Delay Time LOW-to-HIGH Level Output	$V_{CC} = 4.5V$ to 5.5V R _L = 500 Ω	1	4.5	ns		
t _{PHL}	Propagation Delay Time HIGH-to-LOW Level Output	C _L = 50 pF	1	4.5	ns		



DM74AS10

