

MC74AC540, MC74ACT540, MC74AC541, MC74ACT541

MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _{CC}	DC Supply Voltage (Referenced to GND)	-0.5 to +6.5	V
V _{IN}	DC Input Voltage (Referenced to GND)	-0.5 to V _{CC} +0.5	V
V _{OUT}	DC Output Voltage (Referenced to GND) (Note 1)	-0.5 to V _{CC} +0.5	V
I _{IK}	DC Input Diode Current	±20	mA
I _{OK}	DC Output Diode Current	±50	mA
I _{OUT}	DC Output Sink/Source Current	±50	mA
I _{CC}	DC Supply Current, per Output Pin	±50	mA
I _{GND}	DC Ground Current, per Output Pin	±100	mA
T _{STG}			

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DC CHARACTERISTICS

Symbol	Parameter	V _{CC} (V)	74AC		74AC		Unit	Conditions
			T _A = +25°C		T _A = -40°C to +85°C			
			Typ	Guaranteed Limits				
V _{IH}	Minimum High Level Input Voltage	3.0	1.5	2.1	2.1		V	V _{OUT} = 0.1 V or V _{CC} - 0.1 V
		4.5	2.25	3.15	3.15			
		5.5	2.75	3.85	3.85			
V _{IL}	Maximum Low Level Input Voltage	3.0	1.5	0.9	0.9		V	V _{OUT} = 0.1 V or V _{CC} - 0.1 V
		4.5	2.25	1.35	1.35			
		5.5	2.75	1.65	1.65			
V _{OH}	Minimum High Level Output Voltage	3.0	2.99	2.9	2.9		V	I _{OUT} = -50 μA
		4.5	4.49	4.4	4.4			
		5.5	5.49	5.4	5.4			
		3.0	-	2.56	2.46		V	*V _{IN} = V _{IL} or V _{IH} -12 mA I _{OH} -24 mA -24 mA
		4.5	-	3.86	3.76			
		5.5	-	4.86	4.76			
V _{OL}	Maximum Low Level Output Voltage	3.0	0.002	0.1	0.1		V	I _{OUT} = 50 μA
		4.5	0.001	0.1	0.1			
		5.5	0.001	0.1	0.1			
		3.0	-	0.36	0.44		V	*V _{IN} = V _{IL} or V _{IH} 12 mA I _{OL} 24 mA 24 mA
		4.5	-	0.36	0.44			
		5.5	-	0.36	0.44			
I _{IN}	Maximum Input Leakage Current	5.5	-	±0.1	±1.0		V _I = V _{CC} , GND	
I _{OZ}	Maximum 3-State Current	5.5	-	±0.5	±5.0		V _I (OE) = V _{IL} , V _{IH} V _I = V _{CC} , GND V _O = V _{CC} , GND	
I _{OLD}	†Minimum Dynamic Output Current	5.5	-	-	75		mA	

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AC CHARACTERISTICS (For Figures and Waveforms – See AND8277/D at www.onsemi.com)

Symbol

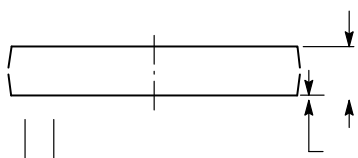
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ORDERING INFORMATION

Device	Marking	Package	Shipping†
MC74AC540DWG	AC540	SOIC-20	38 Units / Rail
MC74AC540DWR2G	AC540	SOIC-20	1000 / Tape & Reel
MC74ACT540DWG	ACT540	SOIC-20	38 Units / Rail
MC74ACT540DWR2G	ACT540	SOIC-20	1000 / Tape & Reel
MC74ACT540DTR2G	ACT 540	TSSOP-20	2500 / Tape & Reel
MC74AC541DWG	AC541	SOIC-20	38 Units / Rail
MC74AC541DWR2G	AC541	SOIC-20	1000 / Tape & Reel
MC74ACT541DWG	ACT541	SOIC-20	38 Units / Rail
MC74ACT541DWR2G	ACT541	SOIC-20	1000 / Tape & Reel
MC74ACT541DWR2G	ACT541	SOIC-20	1000 / Tape & Reel
MC74AC541DTR2G			

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