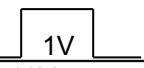


electrical characteristics

DC characteristics contain the spread of values guarantee within the specified supply voltage and temperature range and the technology process parameter range unless otherwise specified. $T_a = 25^\circ\text{C}$ for typical values

#	Symbol	Parameter	Conditions	Min	Typ	Max	Unit
1	I_{DDL}	Current Consumption	$V_{OUT} = \text{Low}$ $V_{DD} = 12\text{V}$ $V_{INZ} = 1\text{V}$	-	0.8	1.0	mA
2	I_{DDH}	Current Consumption	$V_{OUT} = \text{High}$ $V_{DD} = 12\text{V}$ $V_{INZ} = 1\text{V}$	-	0.5	0.8	mA
3	I_{DDL_Error}	Current Consumption Error-Mode	$V_{OUT} = \text{Low}$ $V_{DD} = 12\text{V}, V_{INZ} = 1\text{V}$ V_{OT} 	-	1.4	1.9	mA
4	V_{TRES}	Threshold Voltage Input TRES	$V_{DD} = 12\text{V}$	6.5	7.5	8.5	V
5	V_{PON}	Threshold Voltage Power on	$V_{DD} = 12\text{V}$	8.0	9.1	9.9	V
6	$V_{TH\ OC1,2}$	Threshold Voltage OC1, 2	$V_{DD} = 12\text{V}$	0.55	0.75	0.85	V
7	$V_{TH\ OV/OT}$	Threshold Voltage OV/OT	$V_{DD} = 12\text{V}$	0.55	0.75	0.85	V
8	V_{OUTH}	Output Voltage High OUT	$-I_{OUT} = 6\text{mA}$ $V_{DD} = 12\text{V}$	7.5	9.2	-	V
9	V_{OUTH}	Output Voltage High OUT	$-I_{OUT} = 10\mu\text{A}$ $V_{DD} = 12\text{V}$	7.5	10.6	-	V
10	V_{OUTL}	Output Voltage Low OUT	$I_{OUT} = 6\text{mA}$ $V_{DD} = 12\text{V}$	-	0.2	0.55	V
11	V_{OUTL}	Output Voltage Low OUT	$I_{OUT} = 10\mu\text{A}$ $V_{DD} = 12\text{V}$	-	0.1	0.55	V
12	V_{OSL}	Output Voltage Low Error-Mode OS	$I_{OS} = 2\text{mA}$ $V_{DD} = 12\text{V}$	-	0.2	0.55	V

AC characteristics contain the spread of values guarantee within the specified supply voltage and temperature range and the technology process parameter range unless otherwise specified. $T_a = 25^\circ\text{C}$ for typical values

#	Symbol	Parameter	Conditions	Min	Typ	Max	Unit
1	$t_{r\text{OUT}}$	Turn-on rise time ¹⁾	$C_L = 1.5\text{nF}$ $V_{DD} = 12\text{V}$	-	200	500	ns
2	$T_{f\text{OUT}}$	Turn-off fall time ¹⁾	$C_L = 1.5\text{nF}$ $V_{DD} = 12\text{V}$	-	200	500	ns
3	$t_{\text{Soft c}}$	Soft Start Time cold ¹⁾	$C_{CS} = 4.7\mu\text{F}$, max. Full Power PF = 0.95 $V_{DD} = 12\text{V}$		1.9		s

¹⁾ Parameters are protected by correlation measure