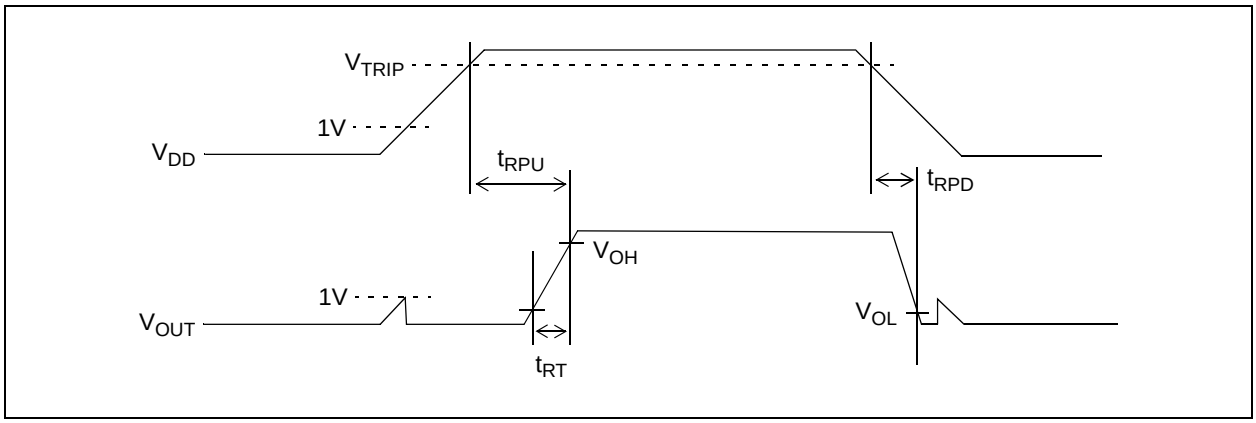

FIGURE 1-1: *Timing Diagram.*

AC CHARACTERISTICS

Electrical Specifications: Unless otherwise indicated, all limits are specified for V_{DD} = 1V to 5.5V, R_{PU} = 100 kΩ (only **MCP111**), T_A = -40°C to +125°C.

Parameters	Sym	Min	Typ	Max	Units	Conditions
V_{DD} Detect to V_{OUT} Inactive	t_{RPU}	—	90	—	µs	**Figure 1-1** and C_L = 50 pF **(Note 1)**
V_{DD} Detect to V_{OUT} Active	t_{RPD}	—	130	—	µs	V_{DD} ramped from $V_{TRIP(MAX)}$ + 250 mV down to $V_{TRIP(MIN)}$ − 250 mV, per **Figure 1-1**, C_L = 50 pF **(Note 1)**
V_{OUT} Rise Time After V_{OUT} Active	t_{RT}	—	5	—	µs	For V_{OUT} 10% to 90% of final value per **Figure 1-1**, C_L = 50 pF **(Note 1)**

Note 1: These parameters are for design guidance only and are not 100% tested.

TEMPERATURE CHARACTERISTICS

Electrical Specifications: Unless otherwise noted, all limits are specified for V_{DD} = 1V to 5.5V, R_{PU} = 100 kΩ (only **MCP111**), T_A = -40°C to +125°C.

Parameters	Sym	Min	Typ	Max	Units	Conditions
Temperature Ranges						
Specified Temperature Range	T_A	-40	—	+85	°C	**MCP1XX-195**
Specified Temperature Range	T_A	-40	—	+125	°C	Except **MCP1XX-195**
Maximum Junction Temperature	T_J	—	—	+150	°C	
Storage Temperature Range	T_A	-65	—	+150	°C	
Package Thermal Resistances						
Thermal Resistance, 3L-SOT23	θ_{JA}	—	336	—	°C/W	
Thermal Resistance, 3L-SC-70	θ_{JA}	—	340	—	°C/W	
Thermal Resistance, 3L-TO-92	θ_{JA}	—	131.9	—	°C/W	
Thermal Resistance, 3L-SOT-89	θ_{JA}	—	110	—	°C/W	