

**Electrical Characteristics** over recommended operating free-air temperature range (unless otherwise noted)

Parameter		Conditions	DM54			Conditions	DM74			Units
			60				60			
			Min	Typ (1)	Max		Min	Typ (1)	Max	
V _{IH}	High Level Input Voltage		2				2			V
V _{IL}	Low Level Input Voltage				0.8				0.8	V
V _{XX(ON)}	On-State Voltage Between Expander Outputs	V _{CC} = 4.5 V V _{IH} = 2 V V _X = 1.1 V I _{X̄} = 3.5 mA T _A = -55°C			0.4	V _{CC} = 4.75 V V _{IH} = 2 V V _X = 1 V I _{X̄} = 3.5 mA T _A = 0°C			0.4	V
I _{X(ON)}	On-State Expander Current	V _{CC} = 4.5 V V _{IH} = 2 V V _X = 1.1 V I _{X̄} = 0 T _A = -55°C	-0.3			V _{CC} = 4.75 V V _{IH} = 2 V V _X = 1 V I _{X̄} = 0 T _A = 0°C	-0.43			mA
I _{X̄(OFF)}	Off-State Expander Current	V _{CC} = 4.5 V V _{IL} = 0.8 V V _{X̄} = 4.5 V R _X = 1.2 kΩ T _A = -55°C			150	V _{CC} = 4.75 V V _{IL} = 0.8 V V _{X̄} = 4.5 V R _X = 1.2 kΩ T _A = 0°C			270	μA
I _I	Input Current at Maximum Input Voltage	V _{CC} = 5.5 V V _I = 5.5 V			1	V _{CC} = 5.25 V V _I = 5.5 V			1	mA
I _{IH}	High Level Input Current	V _{CC} = 5.5 V V _I = 2.4 V			40	V _{CC} = 5.25 V V _I = 2.4 V			40	μA
I _{IL}	Low Level Input Current	V _{CC} = 5.5 V V _I = 0.4 V			-1.6	V _{CC} = 5.25 V V _I = 0.4 V			-1.6	mA
I _{CC(ON)}	Supply Current, Expander On	V _{CC} = 5.5 V V _I = 4.5 V V _X = 0.85 V I _{X̄} = 0		1.2	2.5	V _{CC} = 5.25 V V _I = 4.5 V V _X = 0.85 V I _{X̄} = 0		1.2	2.5	mA
I _{CC(OFF)}	Supply Current, Expander Off	V _{CC} = 5.5 V V _I = 0 V _X = 0.85 V I _{X̄} = 0		2	4	V _{CC} = 5.25 V V _I = 0 V _X = 0.85 V I _{X̄} = 0		2	4	mA

Note 1: All typical values are at $V_{CC} = 5\text{ V}$, $T_A = 25^\circ\text{C}$.