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1. Electrical Specifications

1.1. Performance Tables

Table 1. Recommended Operating Conditions

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
V _{DD} Supply Voltage	V _{DD}		1.71	—	3.6	V
V _{DD} OFF Supply Voltage	V _{DD_OFF}	OFF mode	-0.3		1.0	V
V _{DD} Supply Ripple Voltage		V _{DD} = 3.3 V 1 kHz–10 MHz	—	—	50	mVpp
Operating Temperature	T		-40	25	85	°C
SCL, SDA, Input High Logic Voltage	I ² C _{VIH}		V _{DD} ×0.7	—	V _{DD}	V
SCL, SDA Input Low Logic Voltage	I ² C _{VIL}		0	—	V _{DD} ×0.3	V
Operation under Direct Sunlight	E _{dc}		—	—	128	klx
Start-Up Time		V _{DD} above 1.71 V	25	—	—	ms

Table 2. Performance Characteristics¹

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
I _{DD} OFF Mode	I _{off}	V _{DD} < V _{DD_OFF} (leakage from SCL, SDA, and INT not included)	—	240	1000	nA
I _{DD} Standby Mode	I _{sb}	No ALS Conversions No I ² C Activity V _{DD} = 1.8 V	—	150	500	nA
I _{DD} Standby Mode	I _{sb}	No ALS Conversions No I ² C Activity V _{DD} = 3.3 V	—	1.4	—	μA
I _{DD} Actively Measuring	I _{active}	V _{DD} = 3.3 V	—	4.3	5.5	mA
INT, SCL, SDA Leakage Current		V _{DD} = 3.3 V	-1	—	1	μA
Actively Measuring Time ²		UV or ALS VIS + ALS IR	—	285	—	μs

Notes:

1. Unless specifically stated in "Conditions", electrical data assumes ambient light levels < 1 klx.
2. Represents the time during which the device is drawing a current equal to I_{active} for power estimation purposes. Assumes default settings.