

4.2 Absolute Maximum Ratings⁽¹⁾⁽²⁾

Over Operating Case Temperature Range (Unless Otherwise Noted)

			UNIT
Supply voltage range, CV _{DD} , OSCV _{DD} ⁽³⁾		-0.3 to 1.8	V
Supply voltage range, DV _{DD} , PLLHV		-0.3 to 4	V
Input Voltage Range	All pins except OSCIN	-0.3 to DV _{DD} + 0.5	V
	OSCIN pin	-0.3 to CV _{DD} + 0.5	
Output Voltage Range	All pins except OSCOUT	-0.3 to DV _{DD} + 0.5	V
	OSCOUT pin	-0.3 to CV _{DD} + 0.5	
Clamp Current		±20	mA
Operating case temperature range T _C	Default	0 to 90	°C
	A version	-40 to 105	
Storage temperature range, T _{stg}		-65 to 150	°C

- (1) Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.
- (2) All voltage values are with referenced to V_{SS} unless otherwise specified.
- (3) If OSCV_{DD} and OSCV_{SS} pins are used as filter pins for reduced oscillator jitter, they should not be connected to CV_{DD} and V_{SS} externally.

4.3 Recommended Operating Conditions⁽¹⁾

		MIN	NOM	MAX	UNIT
CV _{DD}	Core Supply Voltage	1.14	1.2	1.32	V
DV _{DD}	I/O Supply Voltage	3.13	3.3	3.47	V
T _C	Operating Case Temperature Range	Default	0	90	°C
		A version	-40	105	

- (1) All voltage values are with referenced to V_{SS} unless otherwise specified.

