4. Maximum values are characterized values and not test limits in production.

26.2.2 **ATmega88P DC Characteristics**

 $T_A = -40$ °C to 85°C, $V_{CC} = 1.8$ V to 5.5V (unless otherwise noted)

Symbol	Parameter	Condition	Min.	Typ. ⁽²⁾	Max.	Units
I _{CC}	Power Supply Current ⁽¹⁾	Active 1 MHz, V _{CC} = 2V		0.3	0.5	mA
		Active 4 MHz, V _{CC} = 3V		1.7	2.5	mA
		Active 8 MHz, V _{CC} = 5V		6.3	9	mA
		Idle 1 MHz, V _{CC} = 2V		0.05	0.15	mA
		Idle 4 MHz, V _{CC} = 3V		0.3	0.7	mA
		Idle 8 MHz, V _{CC} = 5V		1.4	2.7	mA
	Power-save mode ⁽³⁾⁽⁴⁾	32 kHz TOSC enabled, V _{CC} = 1.8V		0.72	1.6	μΑ
		32 kHz TOSC enabled, V _{CC} = 3V		0.9	2.6	μΑ
	Power-down mode ⁽³⁾	WDT enabled, V _{CC} = 3V		4.4	8	μA
		WDT disabled, V _{CC} = 3V		0.2	2	μA

- Notes: 1. Values with "Minimizing Power Consumption" enabled (0xFF).
 - 2. Typical values at 25°C. Maximum values are test limits in production.
 - 3. The current consumption values include input leakage current.
 - 4. Maximum values are characterized values and not test limits in production.

26.2.3 ATmega168P DC Characteristics

 $T_A = -40$ °C to 85°C, $V_{CC} = 1.8$ V to 5.5V (unless otherwise noted)

Symbol	Parameter	Condition	Min.	Typ. ⁽²⁾	Max.	Units
I _{CC}	Power Supply Current ⁽¹⁾	Active 1 MHz, V _{CC} = 2V		0.3	0.5	mA
		Active 4 MHz, V _{CC} = 3V		1.8	2.5	mA
		Active 8 MHz, V _{CC} = 5V		6.7	9	mA
		Idle 1 MHz, V _{CC} = 2V		0.06	0.15	mA
		Idle 4 MHz, V _{CC} = 3V		0.4	0.7	mA
		Idle 8 MHz, V _{CC} = 5V		1.7	2.7	mA
	Power-save mode ⁽³⁾⁽⁴⁾	32 kHz TOSC enabled, V _{CC} = 1.8V		0.8	1.6	μА
		32 kHz TOSC enabled, V _{CC} = 3V		0.9	2.6	μА
	Power-down mode ⁽³⁾	WDT enabled, V _{CC} = 3V		4.6	8	μA
		WDT disabled, V _{CC} = 3V		0.1	2	μA

- Notes: 1. Values with "Minimizing Power Consumption" enabled (0xFF).
 - 2. Typical values at 25°C. Maximum values are test limits in production.

