

12.0 DC Parameters

*** Subject to Change ***

12.1 Absolute Maximum Ratings

Symbol	Parameter	5V Min	5V Max	Units	Note
VDD	Supply voltage	VSS-0.3	VSS+7.0	V	1
Vip	Voltage applied to any pin	VSS-0.3	VDD+0.3	V	1
Ts	Storage temperature	-40	125	deg C	1

Table 18: ARM710 DC Maximum Ratings

Note:

These are stress ratings only. Exceeding the absolute maximum ratings may permanently damage the device. Operating the device at absolute maximum ratings for extended periods may affect device reliability.

12.2 DC Operating Conditions

Symbol	Parameter	Min	Typ	Max	Units	Notes
VDD	Supply voltage	2.7	3.0 - 5.0	5.5	V	
Vihc	IC input HIGH voltage	.8xVDD		VDD	V	1,2
Vilc	IC input LOW voltage	0.0		0.2xVDD	V	1,2
Vohc	OCZ output HIGH voltage	0.9xVDD		VDD	V	1,2
Volc	OCZ output LOW voltage	0.0		0.1xVDD	V	1,2
Ta	Ambient operating temperature	0		70	C	

Table 19: ARM710 DC Operating Conditions

Notes:

- (1) Voltages measured with respect to VSS.
- (2) IC - CMOS inputs (includes IC and ICOCZ pin types)
- (3) OCZ - Output, CMOS levels, tri-stateable

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12.3 DC Characteristics

Symbol	Parameter	Nom	Units	Note
IDD	Static Supply current	20	A	
Isc	Output short circuit current	100	mA	
Ilu	DC latch-up current	>500	mA	
Iin	IC input leakage current	1	uA	
Ioh	Output HIGH current ($V_{out} = V_{DD}-0.4V$)		mA	
Iol	Output LOW current ($V_{out} = V_{SS}+0.4V$)		mA	
Cin	Input capacitance		pF	
ESD	HMB model ESD	4	KV	2

Table 20: ARM710 DC Characteristics

Notes:

- (1) Nominal values shown are derived from transient analysis simulations.
- (2) ESD - 2 KV minimum