Chapter 5
DC Specs and Maximum Ratings

Absolute Maximum Ratings

Case Temperature Under Bias	-25°C to +100°C
Case Storage Temperature	-40°C to +125°C
DC Supply Voltage (V_{CC})	0 to 7.0V
Voltage to any pin with respect to ground	-0.5V to V_{CC} +0.5V

Operating Conditions

Symbol	Parameter	Min.	Max.	Unit
V_{CC}	Supply Voltage (5 volt)	4.75	5.25	V
V_{CC}	Supply Voltage (3.3 volt) [3]	3.15	3.45	V
Freq	Operating Frequency	-	30	MHz
T_a	Ambient Temperature	0	70	C

Capacitance DC Specifications

Symbol	Parameter	Min.	Max.	Unit	Note
C_{in}	Input Capacitance	-	10	pF	1
C_{out}	Output Capacitance	-	10	pF	1

ICC Specifications

Symbol	Parameter	Min.	Max.	Unit	Note
I_{CC}	Supply Current	-	30	mA	2
I_{CC_1}	Supply Current/ SLEEP Mode	-	1	mA	2
I_{CC_2}	Supply Current/ SUSPEND Mode	-	100	µA	2

Notes: 1. @ 1MHz
2. Typical conditions
3. VG-660-L version only

DC Characteristics

Parameter	Min.	Max.	Unit	Conditions
V_{IH}	.7V_{CC}	V_{CC}+0.5	V	-
V_{IL}	-0.5	.15V_{CC}	V	-
$V_{IH_{CLK}}$	.8V_{CC}		V	-
$V_{IL_{CLK}}$	-	.1V_{CC}	V	-
V_{OL}	-	0.1 0.4	V V	I_{OL} = 20µA I_{OL} = defined by the selected output type.
V_{OH}	V_{CC}-0.1 2.4V	-	V V	I_{OH} = -20µA I_{OH} = defined by the selected output type.
I_{IL}	-	-10	µA	$V_{IL} = V_{CC}$
I_{IH}	-	10	µA	$V_{IH} = V_{SS}$
$I_{IL_{CLK}}$	-	-1.0	µA	V_{IL} = 0.2V
$I_{IH_{CLK}}$	-	1.0	µA	V_{IH} = 0.95V_{CC}