Electrical Specifications

82C402 ABSOLUTE MAXIMUM CONDITIONS

Symbol	Parameter	Min	Typ	Max	Units
P_D	Power Dissipation	–	–	175	mW
V_{CC}	Supply Voltage	-0.5	–	7.0	V
V_I	Input Voltage	-0.5	–	V_{CC}+0.5	V
T_{SOL}	Maximum Soldering Temperature (10 sec.)	–	–	260	°C
T_{OP}	Operating Temperature (Ambient)	-25	–	85	° C
T_{STG}	Storage Temperature	-40	–	125	° C

Note: Permanent device damage may occur if Absolute Maximum Ratings are exceeded. Functional operation should be restricted to the conditions described under Normal Operating Conditions.

82C402 NORMAL OPERATING CONDITIONS

Symbol	Parameter	Min	Typ	Max	Units
V_{CC}	Supply Voltage	4.75	5	5.25	V
T_A	Ambient Temperature	0	–	70	° C

82C402 DC CHARACTERISTICS

(Under Normal Operation Conditions Unless Noted Otherwise)

Symbol	Parameter	Notes	Min	Max	Units
I_{CC1}	Power Supply Current	@ 0°C	–	35	mA
I_{IL}	Input Low Leakage Current	V_I = 0.4 v	–	-500	µA
I_{IH}	Input High Current	V_I = 4.6 v	–	2.5	µA
I_{OZ}	Output Leakage Current	High Impedance	–	10	µA
V_{IL}	Input Low Voltage		-0.5	0.8	V
V_{IH}	Input High Voltage		2.5	V_{CC}+0.5	V
V_{OL}	Output Low Voltage	I_{OL} = 4.0 mA (Clock Outputs)	–	0.4	V
V_{OH}	Output High Voltage	I_{OH} = -1.0 mA (Clock Outputs)	2.8	–	V
C_{IN}	Input Capacitance		–	10	pF
	Bit Jitter	(1σ)	–	±350	ps
	Bit Jitter	Absolute	–	500	ps

Electrical specifications contained herein are preliminary and subject to change without notice.

82C402 AC CHARACTERISTICS - Clock Timing