



C8051F019

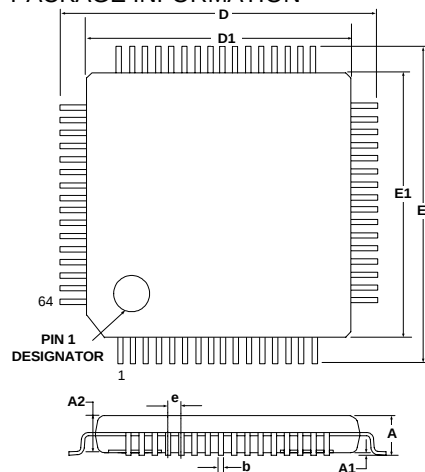
16K Flash, 1.25K RAM, 10-Bit ADC, 48-Pin MCU

PRELIMINARY

SELECTED ELECTRICAL SPECIFICATIONS $T_A = -40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$, $V_{DD} = 2.8\text{V}$ unless otherwise specified.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
GLOBAL CHARACTERISTICS					
Supply Voltage		2.8		3.6	V
Supply Current (CPU active)	Clock=25MHz		12.5		mA
	Clock=1MHz		0.5		mA
	Clock=32kHz		20		μA
Supply Current (shutdown)	Oscillator not running		10		μA
Clock Frequency Range		DC		25	MHz
A/D CONVERTER					
Resolution			10		bits
Integral Nonlinearity			$\pm 1/2$	± 1	LSB
Differential Nonlinearity	Guaranteed Monotonic		$\pm 1/2$	± 1	LSB
Signal-to-Noise Plus Distortion		59	61		dB
Throughput Rate				100	ksps
Input Voltage Range		0		V_{REF}	V
COMPARATORS					
Supply Current	(each Comparator)		1.3		μA
Response Time	$ CP+ - CP- = 100\text{mV}$		4		μs

PACKAGE INFORMATION



	MIN (mm)	NOM (mm)	MAX (mm)
A	-	-	1.20
A1	0.05	-	0.15
A2	0.95	-	1.05
b	0.17	0.22	0.27
D	-	12.00	-
D1	-	10.00	-
e	-	0.50	-
E	-	12.00	-
E1	-	10.00	-

C8051F015DK DEVELOPMENT KIT

