

CM6100

ELECTRICAL SPECIFICATIONS AND CONDITIONS

Table 2. PARAMETERS AND OPERATING CONDITIONS

Parameter	Rating	Units
Storage Temperature Range	–55 to +150	°C
Operating Temperature Range	–40 to +85	°C

Table 3. ELECTRICAL OPERATING CHARACTERISTICS (Note 1)

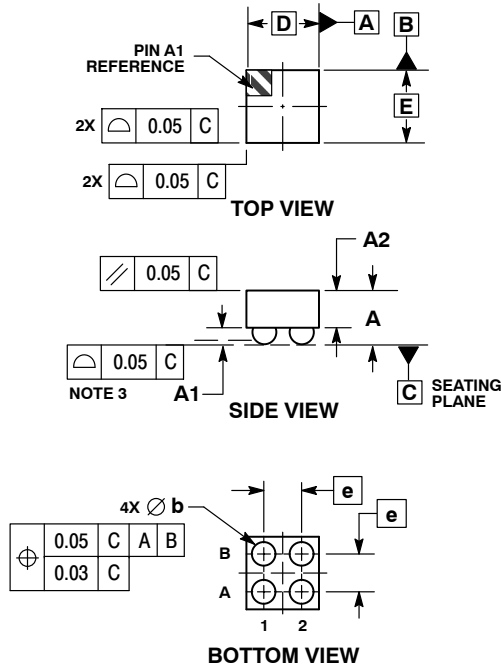
Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_{IN}	Input Operating Supply Voltage			3.0	5.5	V
V_B	Breakdown Voltage (Positive)	$I_F = 8\text{ mA}$	6			V
I_{LEAK}	Channel Leakage Current	$V_{IN} = 3\text{ V}$		± 0.1	± 0.30	μA
C_{IN}	Channel Input Capacitance	At 1 MHz, $V_{IN} = 0\text{ V}$			1.5	pF
ΔC_{IN}	Channel Input Capacitance Matching	At 1 MHz, $V_{IN} = 0\text{ V}$		0.02		pF
V_{ESD}	ESD Protection Peak Discharge Voltage at any channel input a) Contact Discharge per IEC 61000–4–2 standard b) Air Discharge per IEC 61000–4–2 standard	(Note 2)	± 8 ± 15			kV
V_{CL}	Channel Clamp Voltage Positive Transients Negative Transients	$I_{PP} = 1\text{ A}$, $t_P = 8/20\text{ }\mu\text{s}$		+9.8 –1.5		V
R_{DYN}	Dynamic Resistance Positive Transients Negative Transients	$I_{PP} = 1\text{ A}$, $t_P = 8/20\text{ }\mu\text{s}$ Any I/O pin to Ground		0.7 0.5		Ω

1. All parameters specified at $T_A = 25^\circ\text{C}$ unless otherwise noted.
2. Standard IEC 61000–4–2 with $C_{Discharge} = 150\text{ pF}$, $R_{Discharge} = 330\text{ }\Omega$.

CM6100

PACKAGE DIMENSIONS

WLCSP4, 0.8x0.8
CASE 567CB-01
ISSUE O

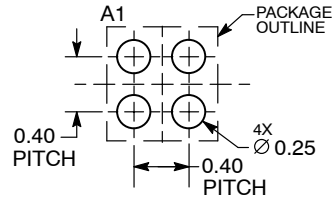


NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. COPLANARITY APPLIES TO SPHERICAL CROWNS OF SOLDER BALLS.

DIM	MILLIMETERS	
	MIN	MAX
A	0.57	0.63
A1	0.17	0.24
A2	0.41	REF
b	0.24	0.29
D	0.80	BSC
E	0.80	BSC
e	0.40	BSC

RECOMMENDED SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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