

Table 4-2. MPC823 (UDR & CDR) Power Consumption

| OPERATION MODE | F98S UDR2 (.42 μ) EQUATION | POWER @ 50MHZ F98S UDR2 (.42 μ) | H89G CDR2 (.36 μ) EQUATION | POWER @ 25MHZ H89G CDR2 (.36 μ) | POWER @ 50MHZ H89G CDR2 (.36 μ) | POWER @ 66MHZ H89G CDR2 (.36 μ) |
|---|---|---|--|---|---|---|
| Normal High LPM=00 TEXPS=1 | $\approx 20 \text{ mW} + F_s/50 * (.78)/2^{D_{FNH}} \text{ W}$ | 800 mW | $\approx 20 \text{ mW} + F_s/50 * (.555)/2^{D_{FNH}} \text{ W}$ | 298 mW | 575 mW | 752 mW |
| Normal Low LPM=00 TEXPS=1 | $\approx 20 \text{ mW} + F_s/50 * (.78)/2^{D_{FNH}+1} \text{ W}$ | 410 mW | $\approx 20 \text{ mW} + F_s/50 * (.555)/2^{D_{FNH}+1} \text{ W}$ | 159 mW | 298 mW | 385 mW |
| Doze High LPM=01 TEXPS=1 | $\approx 20 \text{ mW} + F_s/50 * 0.4(.78)/2^{D_{FNH}} \text{ W}$ | 332 mW | $\approx 20 \text{ mW} + F_s/50 * 0.4(.555)/2^{D_{FNH}} \text{ W}$ | 131 mW | 242 mW | 312 mW |
| Doze Low LPM=01 TEXPS=1 | $\approx 20 \text{ mW} + F_s/50 * 0.4(.78)/2^{D_{FNH}+1} \text{ W}$ | 176 mW | $\approx 20 \text{ mW} + F_s/50 * 0.4(.555)/2^{D_{FNH}+1} \text{ W}$ | 76 mW | 131 mW | 166 mW |
| Sleep LPM=10 TEXPS=1 | - | 10 mW | - | 10 mW | 10 mW | 10 mW |
| Deep-Sleep LPM=11 TEXPS=1 | - | 40 μ A | - | 40 μ A | 40 μ A | 40 μ A |
| Power-Down LPM=11 TEXPS=0 | - | 10 μ A | - | 10 μ A | 10 μ A | 10 μ A |

NOTE: F_s IS THE SYSTEM FREQUENCY IN MHZ

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