

AN2038FAQ

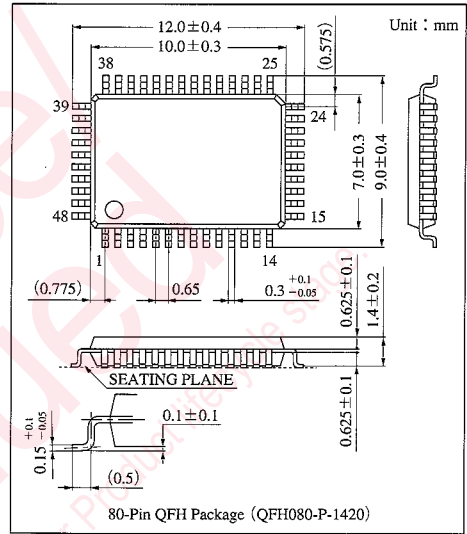
CDS A/D pre-processor IC for digital CCD camera

Overview

The AN2038FAQ is a CDS and A/D processing IC for digital CCD camera.

Features

- CDS part : 6-dB and 9-dB amplifiers
- AGC part : Gain control amplifier (−5 to 20dB)
- γ part : γ correction for 9-bit DSP
- Carrier amp. part: 9-MHz band gain-control-amplifier (1 to 9 dB) , supporting 768 and 830H CCDs
- Sub-amp. part: Gain control amplifier (7 to 17dB) , output DC control (1.3 to 1.45V)
- Ref. power supplies : 3.3, 1.3, and 2.8V outputs for A/D power supply



Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Supply voltage	V_{CC}	$V_{CC1} = 5.5$	V
Supply current	I_{CC}	$I_{CC1(156)} = 47$	mA
Power dissipation ^{Note 2)}	P_D	250	mW
Operating ambient temperature ^{Note 1)}	T_{opr}	−20 to +70	°C
Storage temperature ^{Note 1)}	T_{stg}	−55 to +125	°C

Note 1) $T_a = 25^\circ\text{C}$ for other than operating ambient and storage temperatures.

Note 2) Allowable power dissipation of the package at $T_a = 70^\circ\text{C}$.

Recommended Operating Range ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Range
Operating supply voltage range	V_{CC}	4.5 to 5.1V

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