

AN2039FAQ

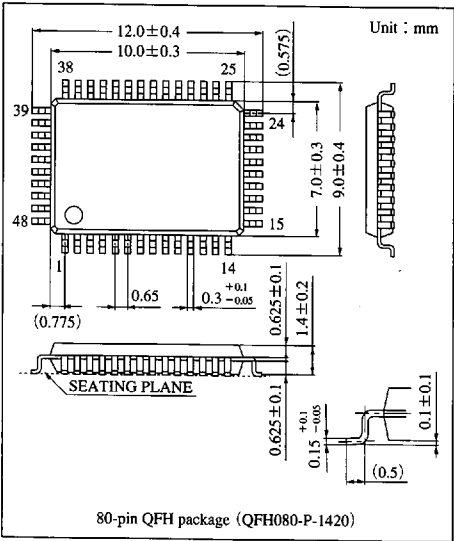
CDS A/D pre-processor IC for digital CCD camera

Overview

The AN2039FAQ 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 (-4 to 20dB)
- γ part : γ correction for 8-bit DSP
- Carrier amp. part : 6.5-MHz band gain-control-amplifier (1 to 9dB) , supporting 510 and 670H 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

ICs for
Video
Camera