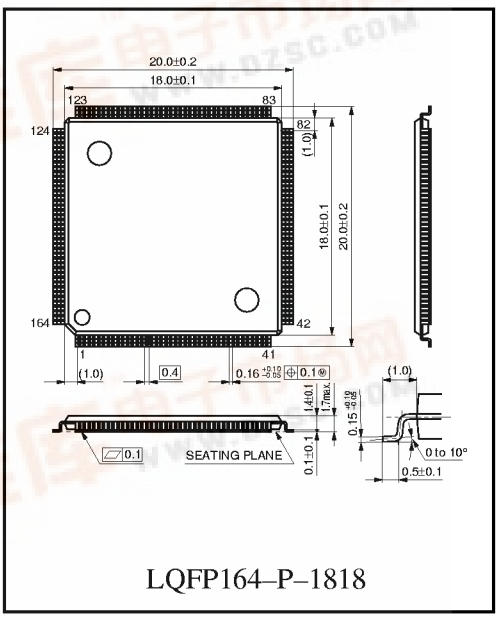
Panasonic

New

VGA digital still camera MN67328

Outline

MN67328 is image preprocessor for digital still camera corresponding to progressive scan system CCD for RGB checked arrangement color filter VGA.
I have JPEG pre disposal, the analog video signal output(D/A converter)built–in, and realize high quality picture by high–speed monitoring by hardware disposal(30field/sec)and original image revision circuit.



LQFP164–P–1818

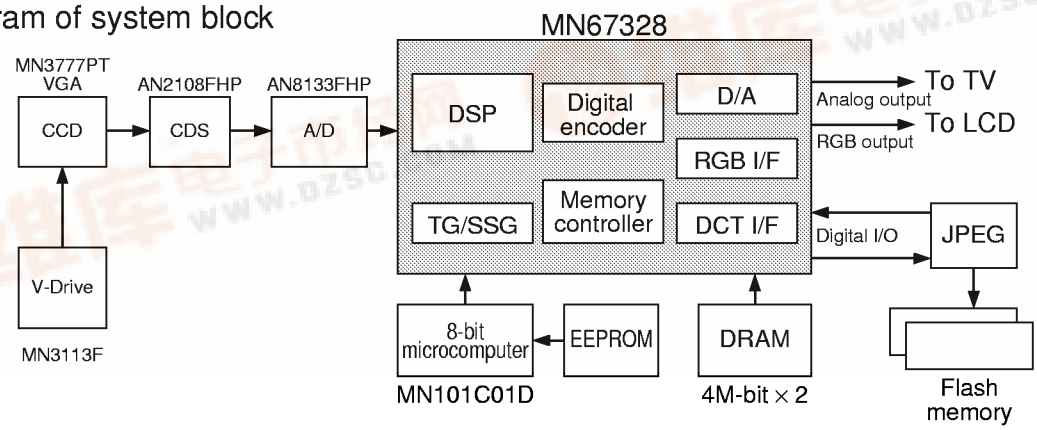
Features

- I adopt RGB signal processing system which was superior in color reproduction.
- I realize high quality picture by 5 line signal processing technology that line memory is built in.
- I have 10 bits D/A converter(3ch)built–in, and respond to RGB output and the video output.
- DCT interface circuit deployment
- RGB interface circuit deployment
- I have TG/SSG circuit, digital encoder built–in
- for NTSC and PAL
- input:Digital input signal 10bit
  output:analog composite output, the analog component output
  input and output:DCT interface 8 bits digital
- Recommendation operating frequency 24.5454MHz(NTSC)
  29.5000MHz(PAL)
- Recommendation operating power supply voltage 3.3V±0.3V

Applications

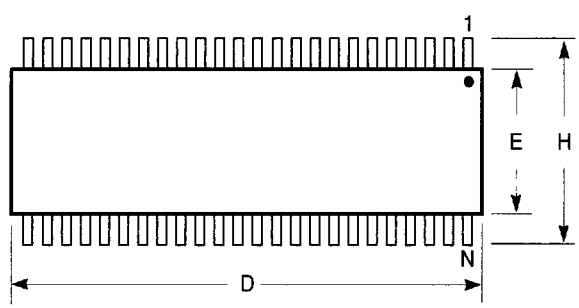
- digital still camera

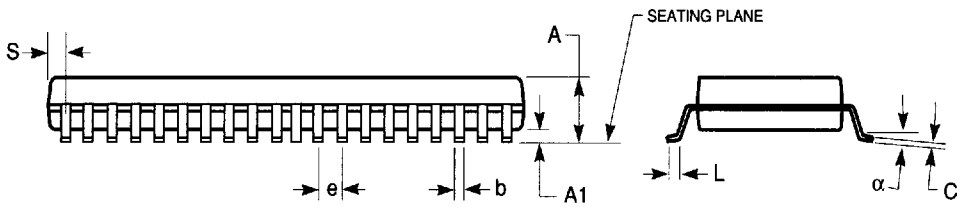
A diagram of system block



300-MIL SSOP - Package Code PV

Shrink Small Outline Package
Plastic Small Outline Gull-Wing



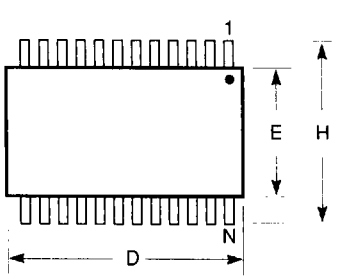


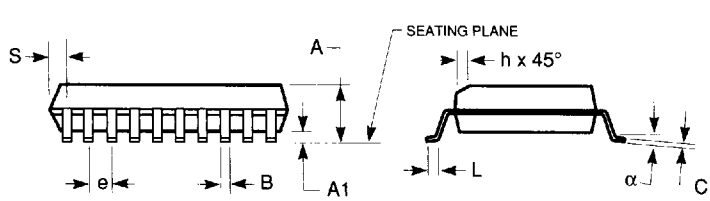
Notes:
1. Refer to applicable symbol list.
2. All dimensions are in inches.
3. N is the number of lead positions.
4. Dimensions D and E are to be measured at maximum material condition but do not include mold flash. Allowable mold flash is 0.006in. per side.
5. Lead coplanarity is 0.004in. maximum.

JEDEC#	MO-118AA			MO-118AB		
DWG#	PSS-48B			PSS-56B		
Symbol	Min	Nom	Max	Min	Nom	Max
A	0.095	0.102	0.110	0.095	0.102	0.110
A1	0.008	0.012	0.016	0.008	0.012	0.016
b	0.008	0.010	0.0135	0.008	0.010	0.0135
C	0.005	0.008	0.010	0.005	0.008	0.010
D	0.620	0.625	0.630	0.720	0.725	0.730
E	0.291	0.295	0.299	0.291	0.295	0.299
e	0.025 BSC			0.025 BSC		
H	0.395	0.410	0.420	0.395	0.410	0.420
L	0.020	0.030	0.040	0.020	0.030	0.040
N	48			56		
α	0°	5°	8°	0°	5°	8°
S	0.022	0.025	0.028	0.022	0.025	0.028

170-MIL TSSOP - Package Code PA

Thin Shrink Small Outline Package
Plastic Small Outline Gull-Wing



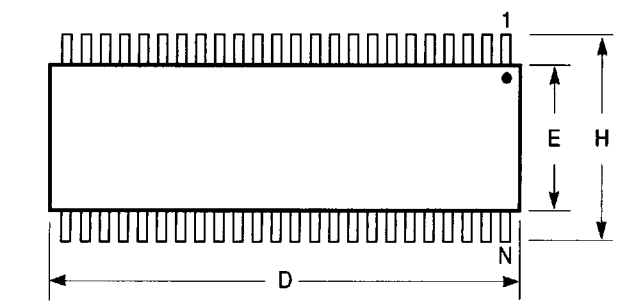


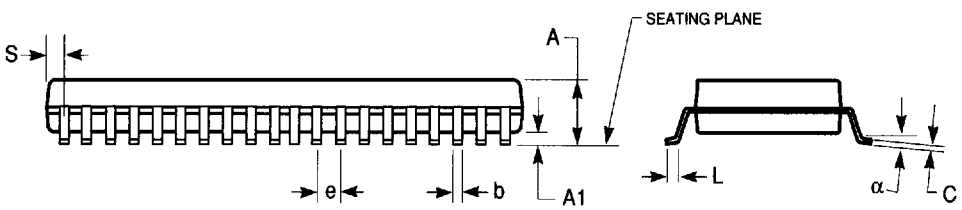
Notes:
1. Refer to applicable symbol list.
2. N is the number of lead positions.
3. Dimensions D and E are to be measured at maximum material condition but do not include mold flash. Allowable mold flash is 0.006in. per side.
4. Lead coplanarity is 0.004in. maximum.

JEDEC#	MO-153AD			MO-153AD		
DWG#	PSS-24C			PSS-24C		
Symbol	Min	Nom	Max	Min	Nom	Max
A	0.045	0.046	0.047	1.14	1.17	1.20
A1	0.002	0.004	0.006	0.05	0.10	0.15
b	0.007	0.010	0.012	0.19	0.25	0.30
C	0.004	0.005	0.006	0.09	0.13	0.16
D	0.303	0.307	0.311	7.7	7.8	7.9
E	0.169	0.173	0.177	4.3	4.4	4.5
e	0.025 BSC			0.65 BSC		
H	0.238	0.252	0.269	6.1	6.4	6.7
L	0.020	0.024	0.030	0.50	0.60	0.75
N	24			24		
α	0°	5°	8°	0°	5°	8°
S	0.007	0.008	0.009	0.18	0.2	0.22
	IN INCHES			IN MILLIMETERS		

240-MIL TSSOP - Package Code PA

Thin Shrink Small Outline Package
Plastic Small Outline Gull-Wing





Notes:
1. Refer to applicable symbol list.
2. N is the number of lead positions.
3. Dimensions D, E, and S are to be measured at maximum material condition but do not include mold flash. Allowable mold flash is 0.006 in. per side.
4. Lead coplanarity is 0.004in. maximum.

JEDEC#	MO-153ED			MO-153EE			MO-153ED			MO-153EE		
DWG#	PSS-48C			PSS-56C			PSS-48C			PSS-56C		
Symbol	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max
A	0.039	0.043	0.047	0.039	0.043	0.047	1.00	1.10	1.20	1.00	1.10	1.20
A1	0.002	0.004	0.006	0.002	0.004	0.006	0.05	0.10	0.15	0.05	0.10	0.15
b	0.006	0.008	0.011	0.006	0.008	0.011	0.17	0.20	0.27	0.17	0.20	0.27
C	0.004	0.006	0.008	0.004	0.006	0.008	0.09	0.15	0.20	0.09	0.15	0.20
D	0.488	0.492	0.496	0.547	0.551	0.555	12.40	12.50	12.60	13.90	14.00	14.10
E	0.236	0.240	0.244	0.236	0.240	0.244	6.00	6.10	6.20	6.00	6.10	6.20
e	0.0197 BSC			0.0197 BSC			0.50 BSC			0.50 BSC		
H	0.315	0.319	0.323	0.315	0.319	0.323	8.00	8.10	8.20	8.00	8.10	8.20
L	0.018	0.024	0.030	0.018	0.024	0.030	0.45	0.60	0.75	0.45	0.60	0.75
N	48			56			48			56		
α	0°	5°	8°	0°	5°	8°	0°	5°	8°	0°	5°	8°
S	0.015	0.020	0.025	0.006	0.010	0.014	0.38	0.50	0.65	0.15	0.25	0.35

DIMENSIONS IN INCHES DIMENSIONS IN MILLIMETERS