

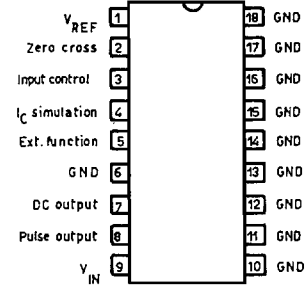
ANALOGUE INTEGRATED CIRCUITS
REGULATORS, OP. AMPS & COMPARATORS



*** SWITCH-MODE POWER SUPPLY CONTROLLER**

TDA 4601D Features :

- Operating temperature : 0 70°C
- Supply voltage : 7.8 18 V
- Switch voltage V9 : 11 12.3 V
- Supply current : 110 ... 160 mA
- Voltage reference V1 : 4 4.5 V
- Feedback voltage V2 : typ 0.2 V
- External protection V5 : 6 8 V

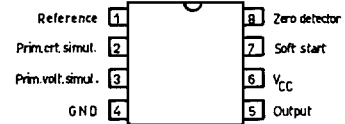


PACKAGE DIL 18 / TOP VIEW

*** CONTROLLER FOR SWITCH-MODE POWER SUPPLY USING MOS-TRANZISTORS**

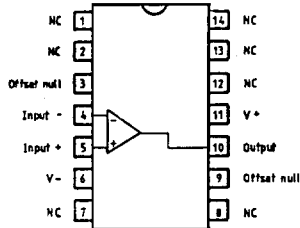
TDA 4605 Features :

- Operating temperature : 0 ... 70°C
- Supply voltage : 8 ... 14 V
- Output sourcing saturation I5=-1A max 3 V
- Output sourcing saturation I5=-0.5A max 1.8 V

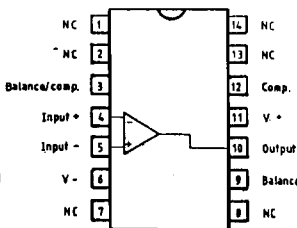


PACKAGE MP-48 / TOP VIEW

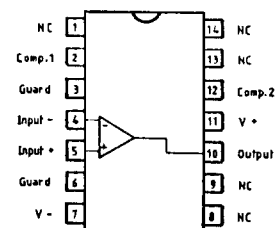
OPERATIONAL AMPLIFIERS



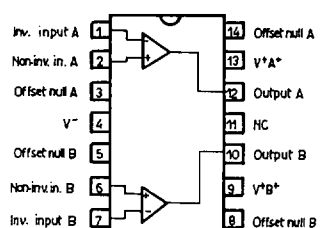
BA 741 / 741J / 741M
 PACKAGE : TO-116



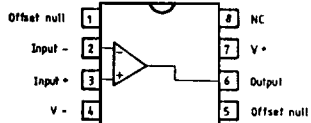
BM 101A / 301A
 PACKAGE : TO-116



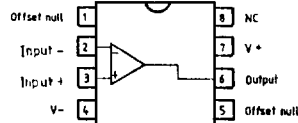
BM 108, A / 208, A / 308, A
 PACKAGE : TO-116



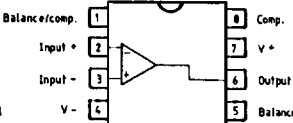
BM 747E / BM 747C
 PACKAGE : TO-116



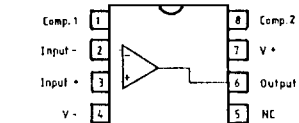
BA 741N, JN, MN
 PACKAGE : MP-48



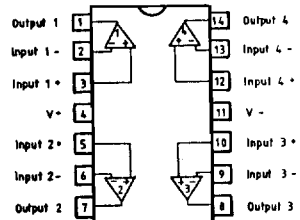
BLF 356N
 PACKAGE : MP-48



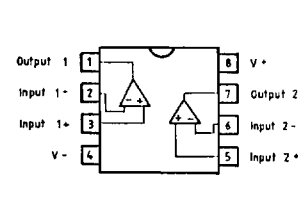
BM 101AN/301AN
 PACKAGE : MP-48



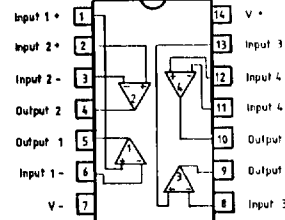
BM 108N, AN/208N, AN/308N, AN
 PACKAGE : MP-48



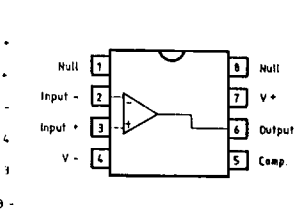
BM 324 / BM 2902
 PACKAGE : TO-116



BM 358N / BM 2904N
 PACKAGE : MP-48



BM 3900AE / BM 3900BE
 PACKAGE : TO-116



TCA 520N
 PACKAGE : MP-48

ANALOGUE INTEGRATED CIRCUITS



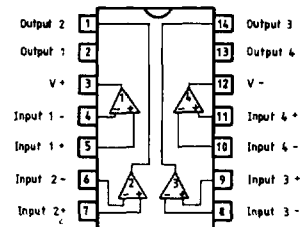
OP. AMPS & COMPARATORS

| Device | I _B | V _{IO} | TDV _{IO} | I _{TO} | G _v | BW # | SR # | CMRR | Supply Voltage | | Description | Nr. of Channels |
|--|----------------|-----------------|-------------------|-----------------|----------------|-------|--------|-------|----------------|-------|-----------------|-----------------|
| | Max. | Max. | Typ. | Max. | Min. | Typ. | Typ. | Typ. | Min. | Max. | | |
| | (nA) | (mV) | uV/°C | (nA) | (V/V) | (MHz) | (V/us) | (dB) | (V) | (V) | | |
| # G _v =1 | | | | | | | | | | | | |
| Military Temperature Range (-55°C ... +125°C) | | | | | | | | | | | | |
| BA 741M, MN | 500 | 6 | 15 | 200 | 50k | 1.0 | 0.5 | 90 | +/-15 | +/-22 | General Purpose | Single |
| BM 101A, AN | 75 | 2 | 3.0 | 10 | 50k | 1.0 | 0.5 | 90 | +/-3 | +/-22 | General Purpose | |
| BM 108, N | 2 | 2 | 3.0 | 0.2 | 50k | 1.0 | 0.3 | 96 | +/-2 | +/-20 | Precision | |
| BM 108A, AN | | 0.5 | 1.0 | | 80k | | | 110 | | | | |
| Industrial Temperature Range (-25°C ... +85°C) | | | | | | | | | | | | |
| BM 208, N | 2 | 2 | 3.0 | 0.2 | 50k | 1.0 | 0.3 | 96 | +/-2 | +/-20 | Precision | Single |
| BM 208A, AN | | 0.5 | 1.0 | | 80k | | | 110 | | | | |
| Commercial Temperature Range (0°C ... +70°C) | | | | | | | | | | | | |
| BA 741, N | 500 | 5 | 15 | 200 | 50k | 1.0 | 0.5 | 90 | +/-15 | +/-22 | General Purpose | Single |
| BA 741J, JN | 200 | 3 | | 50 | | | | | | | | |
| \$ B1F 356N | 0.2 | 10 | 5.0 | 50pA | 50k | 2.0 | 12 | | +/-5 | +/-18 | FET Input | |
| BM 301A, AN | 250 | 7.5 | 6.0 | 50 | 25k | 1.0 | 0.5 | 96 | +/-3 | +/-18 | General Purpose | Single |
| BM 308, N | 7 | 7.5 | 6.0 | 1.0 | 25k | 1.0 | 0.3 | 96 | +/-2 | +/-18 | Precision | |
| BM 308A, AN | | 0.5 | 2.0 | | 80k | | | 110 | | | | |
| BM 324 | 250 | 7 | 7 | 50 | 25k | 1.0 | 0.6 | >65 | +/-1.5 | +/-16 | Low Power | Quad |
| BM 358N | | | | | | | | 70 | | | | Dual |
| BM 747E | 80 | 3 | 10 | | 25k | 1.0 | 0.5 | >80 | +/-3 | +/-18 | BA 741 type | Dual |
| BM 747C | 500 | 6 | 10 | 200 | 25k | 1.0 | 0.5 | >70 | | | | |
| BM 2902 | 250 | 7 | 7 | 50 | 25k | 1.0 | 0.6 | >50 | +/-1.5 | +/-13 | BM 324 type | Quad |
| BM 2904N | | | | | | | | 70 | | | BM 358N type | Dual |
| BM 3900AE | 200 | | | | 1200 | 2.5 | 0.5 | SVRR: | 4 | 36 | NORTON Inputs | Quad |
| BM 3900BE | | | | | | | | 70 | | 18 | | |
| TCA 620N | 150 | 6 | 5.0 | 30 | 25k | | 50 * | 90 | +/-1 | +/-11 | Low power | Single |

* Open Loop test

QUAD VOLTAGE COMPARATORS WITH OPEN COLLECTOR OUTPUTS

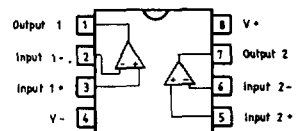
| | | | | |
|---------------|-------------------------|---------------|----------------|----------------|
| BM 339 | Features : | <u>BM 339</u> | <u>BM 2901</u> | <u>BM 3302</u> |
| | Supply Voltage : | 2...36 V | 2...36 V | 2...28 V |
| | Diff. input voltage : | max. 36 V | 36 V | 28 V |
| | Input voltage : | -0.3/36V | -0.3/36V | -0.3/28V |
| | Input offset voltage: | max. ±5mV | ±7 mV | +20 mV |
| | Supply current : | | max. 2 mA | |
| | Operating temperature : | | 0... +70°C | |
| | Open collector outputs | | | |



PACKAGE TO-116 / TOP VIEW

DUAL VOLTAGE COMPARATORS WITH OPEN COLLECTOR OUTPUTS

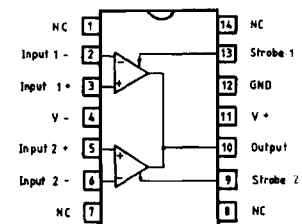
| | | | |
|----------------|-------------------------|----------------|-----------------|
| BM 393N | Features : | <u>BM 393N</u> | <u>BM 2903N</u> |
| | Supply Voltage : | 2... 36 V | 2... 28 V |
| | Diff. input voltage : | max. 36 V | max. 28 V |
| | Input voltage : | -0.3 / 36 V | -0.3 / 28 V |
| | Input offset voltage : | max. ±5 mV | max. ±7 mV |
| | Input bias current : | | max. 250 nA |
| | Input offset current : | | max. 50 nA |
| | Supply current : | | max. 2 mA |
| | Operating temperature : | | 0... +70°C |



PACKAGE MF-48 / TOP VIEW

HIGH-SPEED VOLTAGE COMPARATOR PAIR WITH COMMON OUTPUT

| | | |
|------------------|----------------------------|------------|
| CLB2711EC | Features : | |
| | Operating temperature | 0... +70°C |
| | Positive supply voltage | max. +14 V |
| | Negative supply voltage | max. -7 V |
| | Differential input voltage | max. ±5 V |
| | Input voltage | max. ±7 V |
| | Input offset voltage | max. 5 mV |
| | Input bias current | max. 75 uA |
| | Response time | typ. 40 ns |



PACKAGE TO-116 / TOP VIEW