

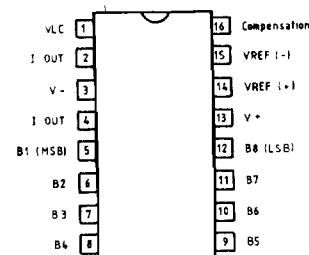
ANALOGUE INTEGRATED CIRCUITS

CONTROL, INDUSTRIAL



8-BIT DIGITAL-TO-ANALOG CONVERTORS

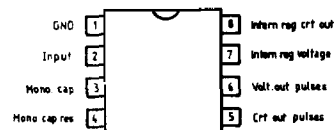
DAC 08H	Features :	
	Operating temperature :	0 ... +70°C
DAC 08E	Supply voltage :	±4.5 / ±18 V
	Differential input voltage :	V- ... V+ V
DAC 08C	Common mode input voltage :	V- ... V+ V
	Settling time :	typ. 100 ns
	Nonlinearity over FULL SCALE :	DAC 08H max ±0.10 %
		DAC 08E max ±0.19 %
		DAC 08C max ±0.39 %



PACKAGE MP-117 / TOP VIEW

PULSE SHAPER CIRCUITS FOR REVOLUTION COUNTERS

SAK 215MN	Features :	
	Operating temperature :	SAK 215MN ... -55 / +125°C
SAK 215VN		SAK 215VN ... -25 ... +85°C
		SAK 215 N ... 0 ... +70°C
SAK 215N	Supply voltage :	nom. 12 V
	Supply current :	max. 12 mA
	Internal regulator voltage :	7.4 / 8.2 V
	Output voltage pulse amplitude :	2 ... 2.5 V
	Designed for frequency-to-current converters.	

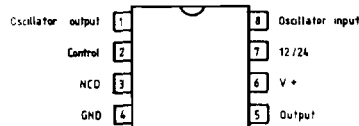


PACKAGE MP-48 / TOP VIEW

POWER TIMER

TBA 315N	Features :	
	Operating temperature :	0 ... +70°C
	Supply voltage :	10 ... 32 V
	Supply current (V=15V) :	3.5 / 18 mA
	Control voltage :	0 ... V _{CC} V
	Output voltage (I=175mA) :	max. 1.5 V
	Output current :	max. 200 mA
	Duty cycle (V _{CC} =12V) :	40 ... 65 %
	Power dissipation :	max. 300 mW

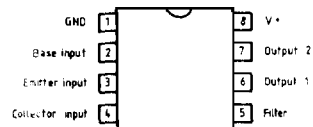
T0-116 case available for max. 0.5W power dissipation (TBA 315E)



PACKAGE MP-48 / TOP VIEW

INDUCTIVE PROXIMITY SENSOR

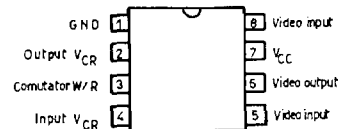
TCA 105N	Features :	
	Operating temperature :	0 ... +70°C
	Supply voltage :	4.5 ... 20 V
	Threshold input voltage :	300 ... 500mV
	Hysteresis :	25 ... 50mV
	Supply current :	max. 5 mA
	Low-level output voltage @ 50 mA :	max. 1.15 V
	Residual output current @ 20 V :	max. 60 uA
	Switching time :	typ. 3 us



PACKAGE MP-48 / TOP VIEW

VIDEO SWITCH

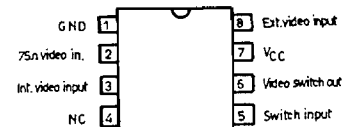
TDA 5850	Features :	
	Operating temperature :	-25 / +70°C
	Supply voltage :	10 ... 16 V
	Supply current :	15 ... 30 mA
	Gain G2/8 :	typ 1/3
	Gain G5/8 :	typ 1
	Gain G6/8 :	typ 1
	Gain G6/4 :	typ 3
	Gain G5/4 :	typ 3



PACKAGE MP-48 / TOP VIEW

VIDEO SWITCH

TEA 2014A	Features :	
	Operating temperature :	-25 ... +70°C
	Supply voltage :	8 ... 14 V
	Supply current :	typ. 75 mA
	Gain G6/8 :	+5 ... +7 dB
	Gain G6/3 :	-1 ... 0 dB
	Gain G2/3 :	-1.8 ... -0.4 dB

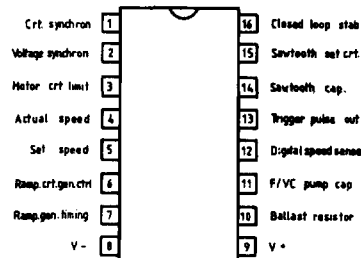


PACKAGE MP-48 / TOP VIEW

UNIVERSAL AC MOTORS SPEED CONTROLLER

TDA 1085A

Features :
 Operating temperature : 0 ... +70°C
 Regulated voltage : typ. 15.5 V
 Control-amplifier transconductance : max. 300µA/V
 Trigger-pulse repetition period : max. 215 µs
 Trigger-pulse width : max. 100 µs
 Output leakage current : max. 30 µA
 Guaranteed full-wave triac-drive.



PACKAGE MP-117 / TOP VIEW

CONTROL CIRCUITS FOR SWITCHED-MODE POWER SUPPLIES

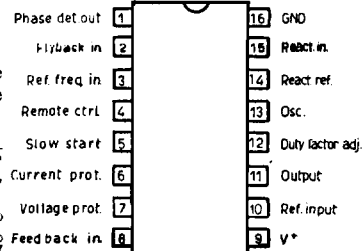
TDA 2581

Features : TDA 2581 controls the duty factor of the positive-going transient of the output signal while

TDA 2582

TDA 2582 controls the negative-going transient.

	TDA 2581	TDA 2582
Operating temperature : ...	-25...+70°C	-25...+70°C
Supply voltage : typ.	12 V	12 V
Horizontal drive pulse : ... typ.	11 V _{pp}	5 ... 11 V _{pp}
Flyback pulse (diff. defl.) typ.	5 V _{pp}	1 ... 5 V _{pp}
External reference voltage: typ.	6.7 V	6.1 V



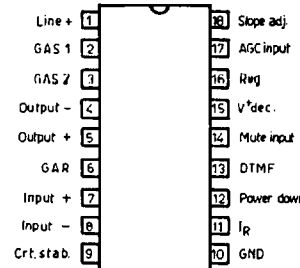
PACKAGE MP-117 / TOP VIEW

TELEPHONE TRANSMISSION CIRCUITS WITH DIALLER INTERFACE

TEA 1060

Features :
 Operating temperature : -25...+75°C
 Line voltage at I_{line}=15mA : typ. 4.45 V
 Line current operating range : 10...140 mA
 Supply current (power input HIGH/LOW) : typ. 55µ/1mA
 Amplification control range : typ. 5.9 dB
 Voltage Amplif. Range (receiving ampl.) 17 ... 39 dB
 V.A.R. (microphone amplifier) TEA 1060 : 44 ... 60 dB
 TEA 1061 : 30 ... 46 dB

TEA 1061

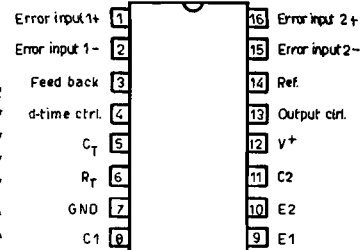


PACKAGE DIL-18 / TOP VIEW

PULSE-WIDTH-MODULATION CONTROL CIRCUIT

\$ TL 494

Features (Preliminary Data) :
 Operating temperature : 0 ... +70°C
 Supply voltage : 7 ... 40 V
 Amplifier input voltage : 0.3 /V⁺-2 V
 Reference output voltage : max. 5 V
 Collector output voltage : max. 40 V
 Collector output current : max. 200 mA
 Current into feedback terminal : max. 0.3 mA
 Oscillator frequency : 1...300 kHz



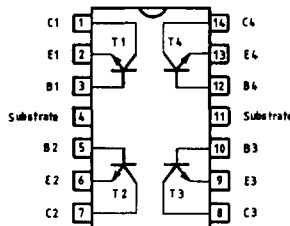
PACKAGE MP-117 / TOP VIEW

TRANSISTOR ARRAYS

β 340D

Features :
 Operating temperature : -25...+70°C
 Collector-emitter voltage , V_{CEO} : max. 15 V
 Collector-base voltage , V_{CB0} : max. 20 V
 Collector-substrate voltage , V_{CSS} : max. 30 V
 Current gain (transistor T1) , h_{FE} : 56 ... 560
 Current gain matching : 0.8 ... 1.25
 Base-emitter volt. matching (β 340D) : max. 5 mV
 Collector current : max. 10 mA

β 342D



PACKAGE TO-116 / TOP VIEW

ANALOGUE INTEGRATED CIRCUITS

CONTROL, INDUSTRIAL

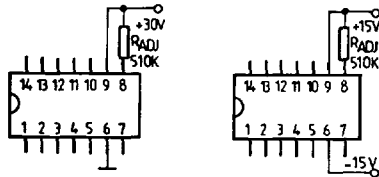


TEMPERATURE CONTROLLED TRANSISTOR ARRAYS

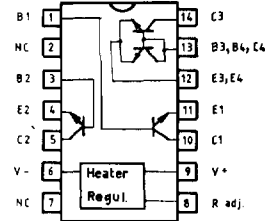
BA 726
BA 726X

Features :

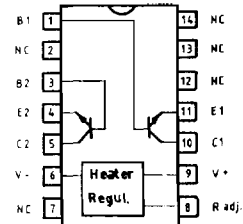
	BA 726	BA 726X
Transistor pair offset voltage :	max. ±3	max. ±1 mV
Max. bias current @ $I_C=100\mu A$:	6	1 μA
Max. bias current @ $I_C=10\mu A$:	300	200 nA
Current mirror precision :	± 20 %	inexistent
Collector-base voltage, V_{CB0} :	max. 40 V	
Collector-substrate voltage, V_{CS} :	max. 40 V	
Emitter-base reverse voltage, V_{EB0} :	max. 5 V	
Current through any transistor :	max. 5 mA	
Thermostat supply current :	max. 50 mA	
Operating temperature :	0 ... +70 °C	
On-chip temperature :	max. +125 °C	
Power dissipation :	max. 500 mW	
Case-ambient thermal resistance :	200 °C/W	



APPLICATIONS (HEATER SUPPLYING)



BA 726 / PACKAGE TO-116



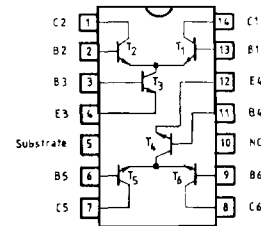
BA 726X / PACKAGE TO-116

DUAL DIFFERENTIAL STAGE

BA 3054

Features :

Operating temperature :	0 ... +70 °C
Collector-base voltage, V_{CB0} :	max. 20 V
Collector-emitter voltage, V_{CE0} :	max. 15 V
Emitter-base reverse voltage, V_{EB0} :	max. 5 V
Collector current :	max. 50 mA
DC current gain per transistor :	typ. 150
Input offset voltage :	max. 5 mV
Input offset current :	max. 2 μA



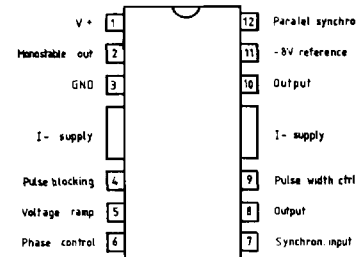
PACKAGE TO-116 / TOP VIEW

PHASE-CONTROL REGULATOR FOR THYRISTORS & TRIACS

BAA 145

Features :

Operating temperature :	0 ... +70 °C
Supply voltage :	max. +18 V
Positive supply current (pin 1) :	12 ... 30 mA
Negative supply current (pin 13) :	max. 25 mA
Negative supply current (pin 15) :	max. 5 mA
Synchronisation current :	max. 10 mA
Phase-control input current :	max. 10 μA
Output current :	max. 20 mA



PACKAGE CB-109B / TOP VIEW

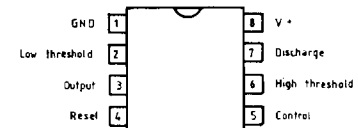
TIMERS

BE 555MN
BE 555N

Features :

Operating temperature :	BE 555MN -55 / +125 °C
	BE 555N 0 ... +70 °C
Supply voltage :	4.5 ... 18 V
Reset voltage :	0.4 ... 1 V
Supply current :	max. 15 mA
Sink/Source output current :	max. 200 mA
Threshold voltage :	typ. 2V+ / 3 V
Power dissipation :	max. 300 mW

TO-116 case available for max. 0.5W power dissipation (BE 555M, E)



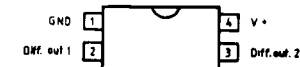
PACKAGE MP-48 / TOP VIEW

LINEAR MAGNETIC HALL TRANSDUCERS, DIFFERENTIAL OUTPUT

BH 1
BH 2

Features : BH 1 and BH 2 are ICs equivalent with a resistor bridge, sensitive to the magnetic field variations.

Operating temperature :	0 ... +70 °C
Supply voltage :	0 ... 18 V
Output offset voltage ($V+=5V$) :	BH 1 -2 ... +12mV
	BH 2 -12 ... +2mV
Supply current ($V=5V$) :	max. 3 mA
Differential output voltage ($B=40mT$) :	min. ± 8 mV



PACKAGE MP-24 / TOP VIEW



BAR-GRAPH DISPLAY DRIVERS

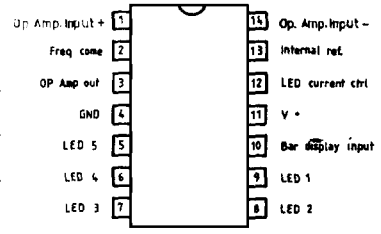
BL 105 Features: For driving 5 or (if used in pair) 10 LED serial bar display at 0 to 20 mA current.

BL 106 Operating temperature : -25...+70°C

BL 107 Supply voltage : 12 ... 18 V

BL 108 Incorporated Op. Amp. open-loop gain : min. 10,000

Input thresholds: BL 105 0.1 / 0.3 / 0.5 / 0.7 / 0.9 V
 BL 106 0.2 / 0.4 / 0.6 / 0.8 / 1 V
 BL 107 0.1 / 0.31 / 0.71 / 1 / 1.41 V
 BL 108 0.18 / 0.5 / 0.84 / 1.19 / 2 V



PACKAGE TO-116 / TOP VIEW

TRIAC/SCR PHASE CONTROLLER

BL 120A Features :

Operating temperature 0 ... +70 °C

AC peak supply current (pin 9) : max. 60 mA

Input current (pin 14) : max. 20 mA

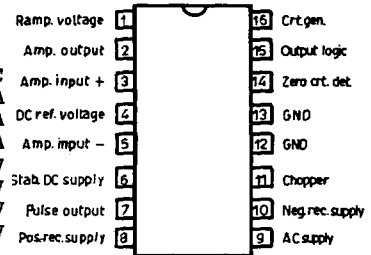
Input diodes peak current : max. 1 A

Positive clamp voltage (V_{8-12}) : max. 15 V

Negative clamp voltage (V_{10-12}) : max. 15 V

Differential input voltage (V_{1-2}) : -7 ... +7 V

Differential input voltage (V_{3-5}) : -8 ... +8 V



PACKAGE MP-117 / TOP VIEW

TRIAC/SCR BURST CONTROLLER

BL 121A Features :

Operating temperature 0 ... +70 °C

AC peak supply current (pin 9) : max. 60 mA

Input voltage (pin 14) : max. 20 V

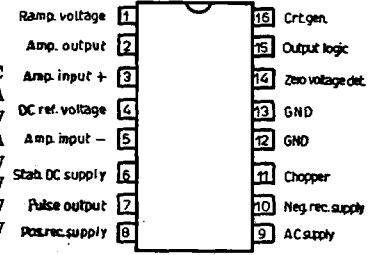
Input diodes peak current : max. 1 A

Positive clamp voltage (V_{8-12}) : max. 15 V

Negative clamp voltage (V_{10-12}) : max. 15 V

Differential input voltage (V_{1-2}) : -7 ... +7 V

Differential input voltage (V_{3-5}) : -8 ... +8 V



PACKAGE MP-117 / TOP VIEW

HALL EFFECT PICKUP IGNITION CONTROLLER

BL 497B Features :

Operating temperature : -50 / +125 °C

Supply voltage : 3.5 ... 28 V

Current limit sensing voltage : 260 ... 370 mV

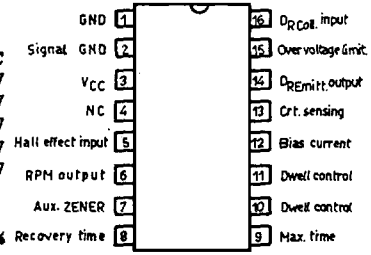
RPM Saturation voltage (25 mA) : 0.8 V

Darlington driver saturation (180 mA) : 0.9 V

Reference voltage : 1.2 ... 1.3 V

I_{11C}/I_{11D} : 7.8 ... 22

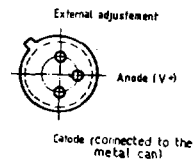
Percentage of output current determining SRC : 90 ... 98 %



PACKAGE DIL 16 / TOP VIEW

TEMPERATURE LINEAR TRANSDUCERS

	BM 135A	BM 335A	BM 335
Operating temperature:	-55/+125	-10/+100	-10/+100°C
Max. initial error :	± 1	± 3	± 6 °C
Typ. nonlinearity over full temperature range :	± 0.5	± 1.5	± 1.5 °C
Temperature sensitivity :	typ. 10mV/°C		
Forward current :	typ. 1 mA		
	max. 10 mA		
Reverse current :	max. 10 mA		



PACKAGE TO-39 / TOP VIEW

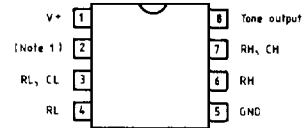
ANALOGUE INTEGRATED CIRCUITS

CONTROL, INDUSTRIAL



TONE RINGERS FOR TELEPHONE BELL REPLACEMENT

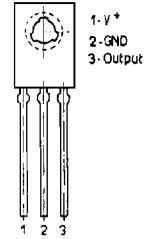
BML 8204	Features :	
	Operating temperature :	-25...+70°C
BML 8205	Supply voltage :	max. 36 V
	Supply initiation voltage :	17 ... 21 V
	Supply initiation current :	1.4 ... 4.2mA
	Sustaining voltage :	9.7 ... 12 V
	Sustaining current :	min. 0.7mA
	Trigger voltage (BML 8204 only) :	min. 10.5 V
	Disable voltage (BML 8204 only) :	max. 0.8 V



Note 1. Pin 2 function for:
 - BML 8204 : Trigger input
 - BML 8205 : Init. current
PACKAGE MP-48 / TOP VIEW

HALL-EFFECT MAGNETIC THRESHOLD SENSORS

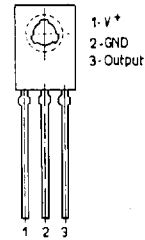
BS 053	Features : Open collector output	
	Operating temperature :	0 ...+70 °C
BS 057	Supply voltage :	4.5...5.5 V
	Supply current :	max. 6.5 mA
BS 255	Output voltage in "ON" state (I _O =18mA):	max. 400 mV
	Output current in "OFF" state :	max. 10 uA
	"ON/OFF" magnetic thresholds :	BS 053 5 / 30 mT
		BS 057 5 / 70 mT
		BS 255 25 / 50 mT



PACKAGE TO-126 (SOT 32)

HALL-EFFECT MAGNETIC THRESHOLD SENSORS

BSM 231	Features :	BSM 231, 232	BSM 233, 234
	Operating temperature :	0 ...+70 °C	0 ...+70 °C
BSM 232	Supply voltage :	max. 25 V	max. 10 V
	Supply current :	max. 6.5 mA	max. 10 mA
BSM 233	"ON" state output voltage:	max. 400 mV	max. 500 mV
	"OFF" state out. current :	max. 10 uA	max. 250 uA
BSM 234	Magnetic thresholds :	BSM 231, BSM 233 5... 30 mT	BSM 232 25... 50 mT
		BSM 234 5... 70 mT	



PACKAGE TO-126 (SOT 32)