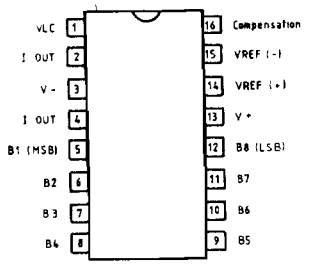
8-BIT DIGITAL-TO-ANALOG CONVERTORS

DAC 08H
DAC 08E
DAC 08C

Features :

Operating temperature :		0 ... +70°C
Supply voltage :		±4.5 /±18 V
Differential input voltage :		V- ... V+ V
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

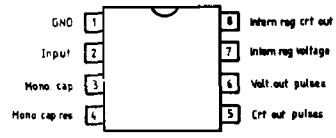
PULSE SHAPER CIRCUITS FOR REVOLUTION COUNTERS

SAK 215MN
SAK 215VN
SAK 215N

Features :

Operating temperature :	SAK 215MN	-55 /+125°C
	SAK 215VN	-25...+85°C
	SAK 215 N	0 ... +70°C
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

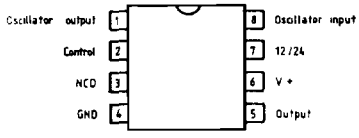
POWER TIMER

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

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



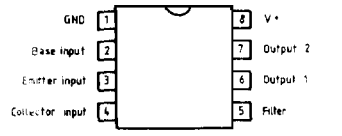
PACKAGE MP-48 / TOP VIEW

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



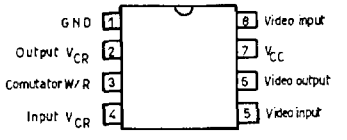
PACKAGE MP-48 / TOP VIEW

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



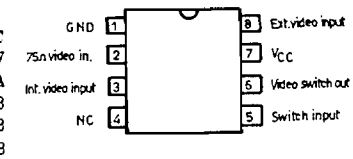
PACKAGE MP-48 / TOP VIEW

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

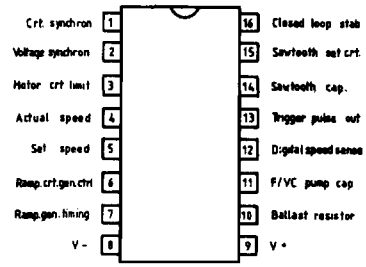
UNIVERSAL AC MOTORS SPEED CONTROLLER

TDA 1085A

Features :

Operating temperature :	0 ... +70°C
Regulated voltage :	typ. 15.5 V
Control-amplifier transconductance :	max. 300uA/V
Trigger-pulse repetition period :	max. 215 us
Trigger-pulse width :	max. 100 us
Output leackage current :	max. 30 uA

Guaranteed full-wave triac-drive.



PACKAGE MP-117 / TOP VIEW

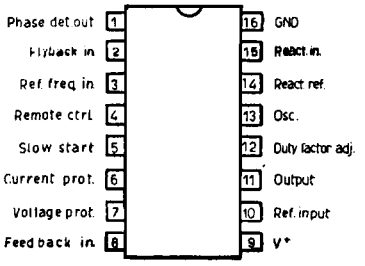
CONTROL CIRCUITS FOR SWITCHED-MODE POWER SUPPLIES

TDA 2581

TDA 2582

Features : TDA 2581 controls the duty factor of the positive-going transient of the output signal while TDA 2582 controls the negative-going transient.

	TDA 2581	TDA 2582
Operating temperature : ...	-25...+70°C	-25...+70°C
Supply voltage :	typ. 12 V	typ. 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	typ. 6.1 V



PACKAGE MP-117 / TOP VIEW

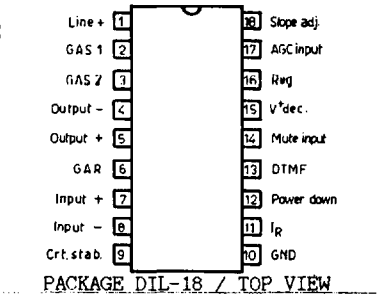
TELEPHONE TRANSMISSION CIRCUITS WITH DIALLER INTERFACE

TEA 1060

TEA 1061

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. 55u/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



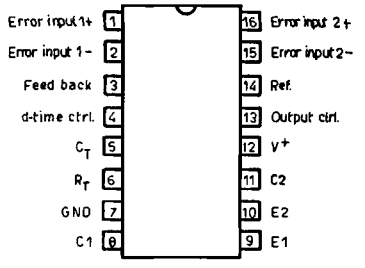
PACKAGE DIL-18 / TOP VIEW

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

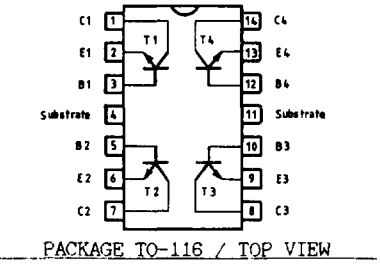
TRANSISTOR ARRAYS

β 340D

β 342D

Features :

Operating temperature :	-25...+70°C
Collector-emitter voltage , V_{CEO} :	max. 15 V
Collector-base voltage , V_{CBO} :	max. 20 V
Collector-substate 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



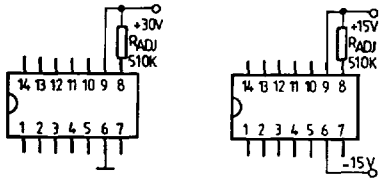
PACKAGE TO-116 / TOP VIEW

TEMPERATURE CONTROLLED TRANSISTOR ARRAYS

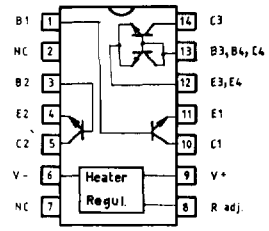
βA 726

βA 726X

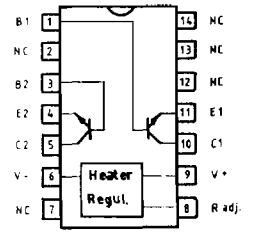
Features :	βA 726	βA 726X
Transistor pair offset voltage :	max. ±3	max. ±1 mV
Max. bias current @ I_C=100uA :	6	1 uA
Max. bias current @ I_C=10uA :	300	200 nA
Current mirror precision :	± 20 %	inexistent
Collector-base voltage , V_{CB0} :	max.	40 V
Collector-substate voltage , V_{CSS} : ...	max.	40 V
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-ambiental thermal resistance : ...	200	°C/W



APPLICATIONS (HEATER SUPPLYING)



βA 726 / PACKAGE TO-116

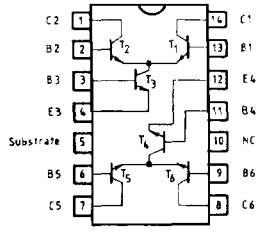


βA 726X / PACKAGE TO-116

DUAL DIFFERENTIAL STAGE

βA 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	uA

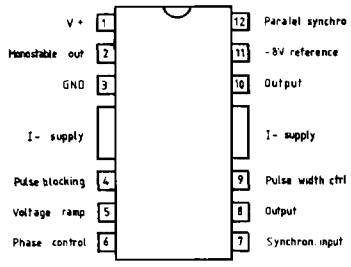


PACKAGE TO-116 / TOP VIEW

PHASE-CONTROL REGULATOR FOR THYRISTORS & TRIACS

βAA 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	uA
Output current	max. 20	mA



PACKAGE CB-109B / TOP VIEW

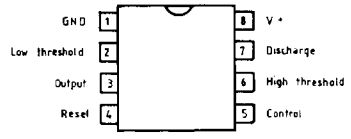
TIMERS

βE 555MN

βE 555N

Features :		
Operating temperature : βE 555MN	-55 /+125	°C
βE 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 (βE 555M, E)



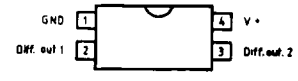
PACKAGE MP-48 / TOP VIEW

LINEAR MAGNETIC HALL TRANSDUCERS, DIFFERENTIAL OUTPUT

βH 1

βH 2

Features : βH 1 and βH 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) : βH 1	-2 ...+12	mV
βH 2	-12 ...+2	mV
Supply current (V=5V) :	max. 3	mA
Differential output voltage (B=40mT) :	min. ± 8	mV

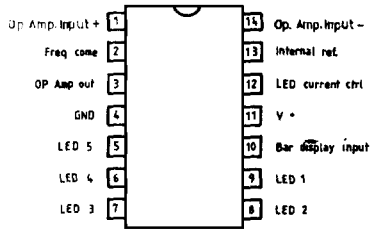


PACKAGE MP-24 / TOP VIEW

BAR-GRAPH DISPLAY DRIVERS

βL 105
βL 106
βL 107
βL 108

Features: For driving 5 or (if used in pair) 10 LED serial bar display at 0 to 20 mA current.
Operating temperature : ..... -25...+70 °C
Supply voltage : ..... 12 ... 18 V
Incorporated Op. Amp. open-loop gain : min. 10,000
Input thresholds: βL 105 0.1 /0.3 /0.5 /0.7 /0.9 V
βL 106 0.2 /0.4 /0.6 /0.8 / 1 V
-20/-10/-3/0/+3dB βL 107 0.1 /0.31/0.71/ 1 /1.41 V
-15/-6/-1.5/1.5/6 βL 108 0.18/0.5 /0.84/1.19 / 2 V

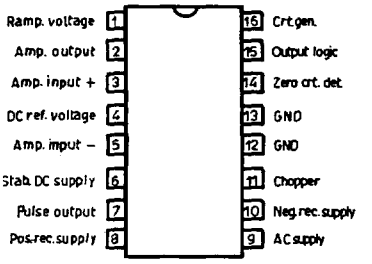


PACKAGE TO-116 / TOP VIEW

TRIAC/SCR PHASE CONTROLLER

βL 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

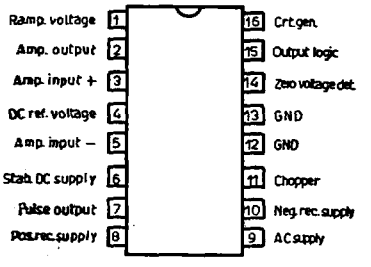


PACKAGE MP-117 / TOP VIEW

TRIAC/SCR BURST CONTROLLER

βL 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

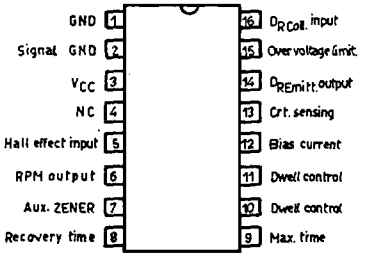


PACKAGE MP-117 / TOP VIEW

$ HALL EFFECT PICKUP IGNITION CONTROLLER

βL 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 %



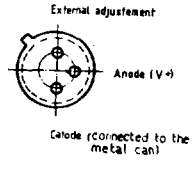
PACKAGE DIL 16 / TOP VIEW

TEMPERATURE LINEAR TRANSDUCERS

βM 135A
βM 335A
βM 335

Features :	βM 135A	βM 335A	βM 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

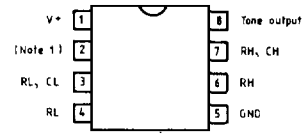


PACKAGE TO-39 / TOP VIEW

TONE RINGERS FOR TELEPHONE BELL REPLACEMENT

βML 8204
βML 8205

Features :
Operating temperature : ..... -25...+70°C
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 (βML 8204 only) : ..... min. 10.5 V
Disable voltage (βML 8204 only) : ..... max. 0.8 V



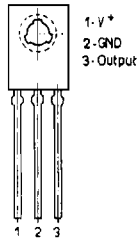
Note 1. Pin 2 function for:
- βML 8204 : Trigger input
- βML 8205 : Init. current

PACKAGE MP-48 / TOP VIEW

HALL-EFFECT MAGNETIC THRESHOLD SENSORS

βS 053
βS 057
βS 255

Features : Open collector output
Operating temperature : ..... 0 ...+70 °C
Supply voltage : ..... 4.5...5.5 V
Supply current : ..... max. 6.5 mA
Output voltage in "ON" state (I_O=16mA): max. 400 mV
Output current in "OFF" state : ..... max. 10 uA
"ON/OFF" magnetic thresholds : βS 053 5 / 30 mT
βS 057 5 / 70 mT
βS 255 25 / 50 mT

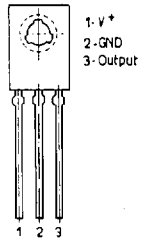


PACKAGE TO-126 (SOT 32)

HALL-EFFECT MAGNETIC THRESHOLD SENSORS

βSM 231
βSM 232
βSM 233
βSM 234

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



PACKAGE TO-126 (SOT 32)