Audio ICs查询BA6104供应商

# LED level meter driver, 5-point, linear scale BA6104

The BA6104 is a monolithic driver IC for LED level meters applications.

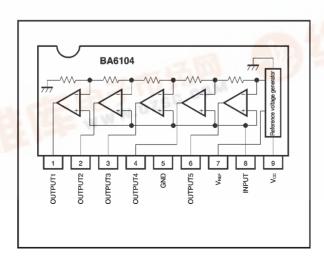
The IC has five comparators that operate in equally-spaced steps in response to the input voltage, and drive bar-display output LEDs.

When the reference voltage generator is not set (pin 7 open), the comparators operate in 200mV (approx.) steps, so an input level of about 1V lights all of the LEDs. By connecting external resistors between pin 7 and GND. and pin 7 and Vcc, this level can be adjusted over the range 0.5V to 3.0V.

•Applications Signal meters, tuning meters and voltage checkers.

#### Features

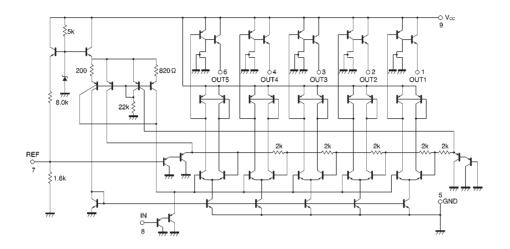
- Drives an LED bar display in proportion to the input level.
- The output current can be set to a maximum of 15mA using external resistors, allowing free selection of the type and color of the LEDs.
- 3) The input level at which all LEDs light can be set in the range 0.5V to 3.0V using external resistors.
- 4) High input impedance.
- 5) Easy-to-handle 9-pin SIP package.



#### Block diagram



#### Internal circuit configuration



### •Absolute maximum ratings (Ta = $25^{\circ}$ C)

Parameter	Symbol	Limits	Unit
Power supply voltage	Vcc	18	V
Power dissipation	Pd	500 *	mW
Operating temperature	Topr	-20~+75	°C
Storage temperature	Tstg	-55~+125	°C
Maximum input voltage	Vin	4.5	V
Maximum LED drive current	lol	20	mA

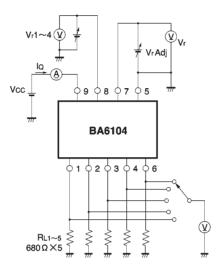
\* Reduced by 5mW for each increase in Ta of 1°C over 25°C.

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Power supply voltage	Vcc	9	12	15	V	_
Quiescent current	la	_	3	6	mA	LED current not included, $R_{L} = \infty$ , $V_{IN} = 0V$
Comparator level 1	Vr1	130	200	270	mV	After setting V <sub>r</sub> = 1.0V
Comparator level 2	Vr2	330	400	470	mV	After setting Vr = 1.0V
Comparator level 3	Vr3	530	600	670	mV	After setting Vr = 1.0V
Comparator level 4	Vr4	730	800	870	mV	After setting Vr = 1.0V
Setting range to light all LEDs	Vr	0.93	1.0	1.07	v	After setting $V_r = 1.0V$ Decision at $V_{TL} > 8.0V$
LED drive current	DL	_	—	15	mA	_

## •Electrical characteristics (unless otherwise noted, Ta = $25^{\circ}C$ and Vcc = 12V)

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#### Measurement circuit



•External dimensions (Units: mm)

