

BA6220

LINEAR INTEGRATED CIRCUIT

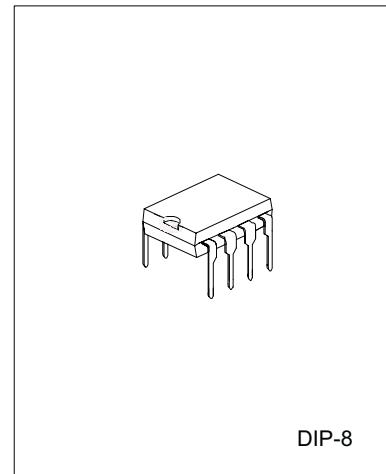
GENERAL USE ELECTRONIC GOVERNOR

DESCRIPTION

The Contek BA6220 is a monolithic integrated circuit , developed for speed control of general use DC motors.

FEATURES

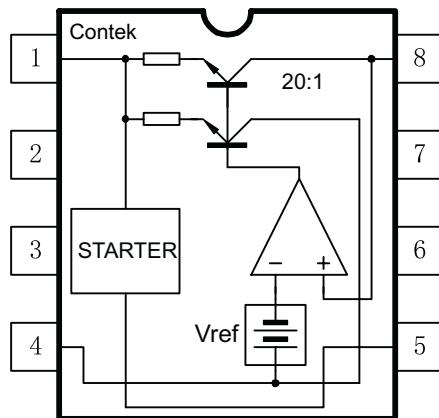
- *Wide range of working power supply voltage range (Vcc= 3.5V - 16V).
- *Very large starting torque at the low voltage.
- *Large permissible loss due to effective utilization of substrate radiation.
- *Usable for various DC motors by means of changing constants of the external components.



APPLICATION

- *Radio cassette tape recorders

BLOCK DIAGRAM



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BA6220**LINEAR INTEGRATED CIRCUIT****ABSOLUTE MAXIMUM RATINGS($T_A=25\text{ }^{\circ}\text{C}$)**

PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	V _{cc}	18	V
Power Dissipation(note 1)	P _d	1.4	W
Operating Temperature	T _{opr}	-25 to 75	C
Storage Temperature	T _{stg}	-55 to 125	C

Note 1: PCB(Copper-surfaced) 9cm², T 1.0mm.**RECOMMENDED OPERATING CONDITIONS($T_A=25\text{ }^{\circ}\text{C}$)**

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP.	MAX	UNIT
Operating Supply Voltage	V _{cc}	Loader: 8g-cm	3.5		16	V

ELECTRICAL CHARACTERISTICS($T_A=25\text{ }^{\circ}\text{C}, V_{CC}=12\text{V}$)

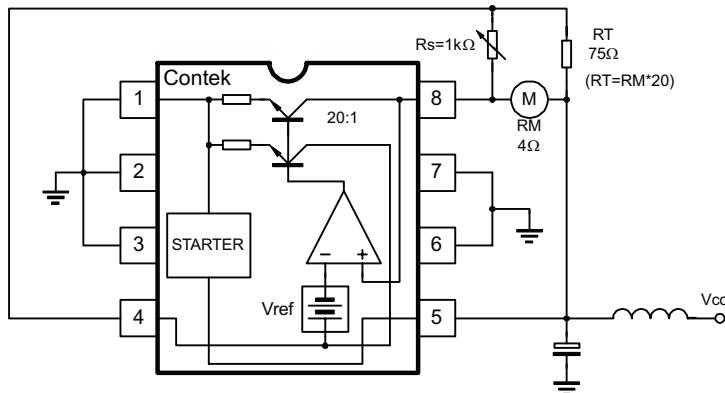
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP.	MAX	UNIT	TEST CIRCUIT
Bias Current	I ₄	R _M =180Ω	0.5	0.8	1.2	mA	Fig.d
Output Saturate Voltage	V _{sat}	V _{cc} =4.2V, R _M =4.4Ω		1.5	2.0	V	Fig.c
Reference Voltage	V _{ref}	I _M =10mA	1.10	1.27	1.40	V	Fig.a
Current Ratio	K	R _M =33 - 44Ω	18	20	22		Fig.b
Voltage Feature of Reference Voltage	ΔV _{ref} /V _{ref} /ΔV _{cc}	I _M =100mA, V _{cc} =6.3 - 16V		0.06		%/V	Fig.a
Voltage Feature of Current Ratio	ΔK/K/ΔV _{cc}	I _M =100mA, V _{cc} =6.3 - 16V		0.4		%/V	Fig.b
Current Feature of Reference Voltage	ΔV _{ref} /V _{ref} /ΔI _M	I _M =30 - 200mA		-0.02		%/mA	Fig.a
Current Feature of Current Ratio	ΔK/K/ΔI _M	I _M =30 - 200mA		-0.02		%/mA	Fig.b
Temperature Feature of Reference Voltage	ΔV _{ref} /V _{ref} /ΔT _a	I _M =100mA, T _a =-25 - 75 C		0.01		%/ C	Fig.a
Temperature Feature of Current ratio	ΔK/K/ΔT _a	I _M =100mA, T _a =-25 - 75 C		0.01		%/ C	Fig.b

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APPLICATION CIRCUIT



TEST CIRCUIT

