UTC AN6650 LINEAR INTEGRATED CIRCUIT

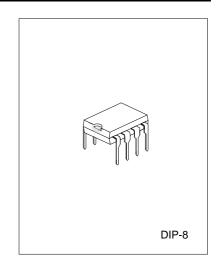
MOTOR SPEED CONTROL CIRCUIT

DESCRIPTION

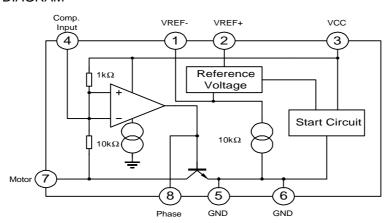
The UTC AN6650 is a monolithic integrated circuit, designed for the tape recorder.

FEATURES

- *Wide operating supply voltage: Vcc=1.8V-7V
- *Few external components
- *Easy speed control mode



BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	V _{cc}	7.5	V
Terminal Voltage	Vn(n=1,2,3,4)	-0.5 to 7.5	V
Terminal 8 Voltage	V_8	-0.5 to 1	V
Supply Current	I _{cc} *	1000	mA
Terminal 7 Current	l ₇	1000	mA
Power Dissapation	PD	750	mW
Operating Temperature	T _{OPR}	-20 to 70	°C
Storage Temperature	T _{STQ}	-40 to 150	Ô

^{*}Test Time<5µs



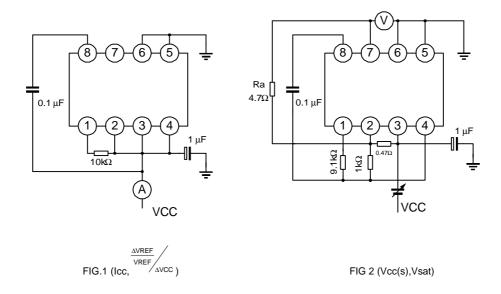
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UTC AN6650 LINEAR INTEGRATED CIRCUIT

ELECTRICAL CHARACTERISTICS(Ta=25°C, Vcc=6V, f=1KHZ, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT	TEST CIRCUIT
Quiescent Circuit Current	ICC	VCC=3V		2	3	mA	1
Reference Voltage	VREF	VCC=3\£ R2-1>10kΩ	1.20	1.28	1.35	V	4
Start Voltage	VCC(S)	30mAcurrent flow to Ra		1.0	1.2	V	2
Saturation Voltage	VSAT	VCC=1.8V,Ra=4.7Ω		0.2	0.5	V	2
Reference Voltage Characteristics	ΔVREF VREF ΔVCC	VCC=1.8V~7.0V	-1.25	0.1	1.25	%/V	1
Output Voltage Characteristics	ΔVA VA ΔVCC	VCC=1.8V~7.0V	-1.2	0.1	1.2	%/V	3
Reference Voltage Current Characteristics	ΔVREF VREF ΔI7	I7=1mA~20mA	-0.2	0.01	0.2	%/mA	4
Reference Voltage Temperature Characteristics	ΔVREF VREF ΔTA	TA=-20~+60°C,VCC=3.0V		0.01		%/°C	4

TEST CIRCUIT



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LINEAR INTEGRATED CIRCUIT UTC AN6650

