

UTC BA6208 LINEAR INTEGRATED CIRCUIT

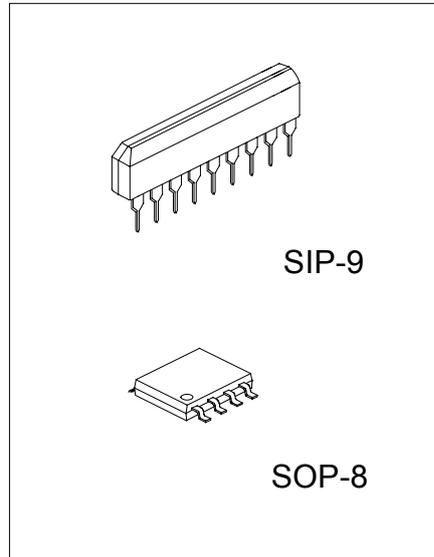
REVERSIBLE MOTOR DRIVER

DESCRIPTION

The UTC BA6208 is monolithic ICs used for driving reversible motors. They allow control of reversible motors in cassette players and other electrical equipment by using TTL-level logic signals. The ICs contain a logic section, which controls forward and reverse rotations as well as forced stop, and an output power section, which can supply an output current of up to 100mA (typical) according to the logic control.

FEATURES

- *Motor driving power transistors are built in (100mA typically).
- *Brake is applied when stopping the motor (when in- puts A and B are both HIGH level).
- *Built-in diode to absorb surge currents.
- *Very low standby circuit current when inputs A and B are both LOW level.
- *Wide range of operating supply voltage (4.5 ~ 15.0V)
- *Direct control with the TTL logic.



ABSOLUTE MAXIMUM RATING (Ta=25°C)

PARAMETER	SYMBOL	VALUE	UNIT
Power Supply Voltage	Vcc	18	V
Power Dissipation	Pd	700 (SIP9) [note 1] 450 (SOP8) [note 2]	mW
Operating Temperature	Topr	-20 to +60	°C
Storage Temperature	Tstg	-55 to +125	°C
Maximum Output Current	Iout	500	mA

Note 1: Reduced by 7mW for each increase in Ta of 1°C over 25°C.

Note 2: Reduced by 4.5mW for each increase in Ta of 1°C over 25°C.

RECOMMENDED OPERATING CONDITIONS (Ta=25°C)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply Voltage	Vcc	4.5		15	V

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INPUT TRUTH TABLE

3pin (Ain)	2pin (Bin)	8pin (Aout)	7pin (Bout)
H	L	H	L
L	H	L	H
H	H	L	L
L	L	OPEN	OPEN

Note: HIGH level input is 2.0V or more.

LOW level input is 0.8V or less.

ELECTRICAL CHARACTERISTICS (Ta=25°C, VCC=9V, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Output Current	I _O		200			mA
Output Saturation Voltage	V _{CE}	I _o =100mA			1.6	V
Input High Level Voltage	V _{IH}		2.0			V
Input Low Level Voltage	V _{IL}				0.8	V
Standby Supply Current	I _{ST}	When inputs A and B are both Low level			0.4	mA
Input High Level Current	I _{IH}	V _{IH} =4.5V			400	μA

Note: A diode that absorbs at least 500mA is built in to give protection against surge currents with a pulse width of 10 ms and a duty ratio of 10% or less.

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TEST CIRCUIT

