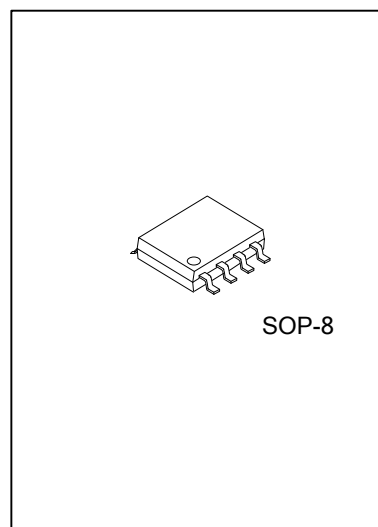


**UA9287****LINEAR INTEGRATED CIRCUIT****REVERSIBLE MOTOR DRIVER****■ DESCRIPTION**

The UTC **UA9287** is designed for driving reversible-motor with a maximum output current of 1A. There are four output modes decided by two logic inputs: forward, reverse, stop (idling), and brake. When the motor is in stop mode, the current consumption can be suppressed.

■ FEATURES

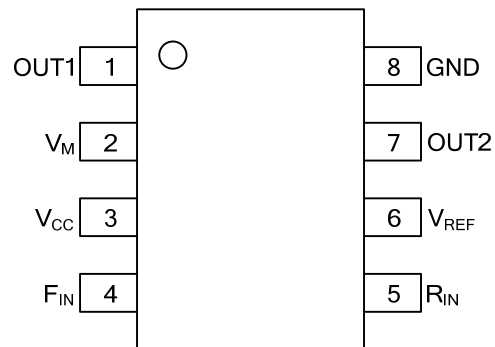
- * With the V_{REF} Pin, Output Voltage can be Set Arbitrarily.
- * The Current Dissipation can be Suppressed with Power Saving Circuit Built-In when in Stop Mode.
- * Thermal Shutdown Circuit Built-In.
- * Interfaces with TTL Devices.

**■ ORDERING INFORMATION**

Ordering Number		Package	Packing
Lead Free	Halogen Free		
UA9287L-S08-R	UA9287G-S08-R	SOP-8	Tape Reel
UA9287L-S08-T	UA9287G-S08-T	SOP-8	Tube

UA9287L-S08-R (1) Packing Type (2) Package Type (3) Lead Free	(1) R: Tape Reel, T: Tube (2) S08: SOP-8 (3) G: Halogen Free, L: Lead Free
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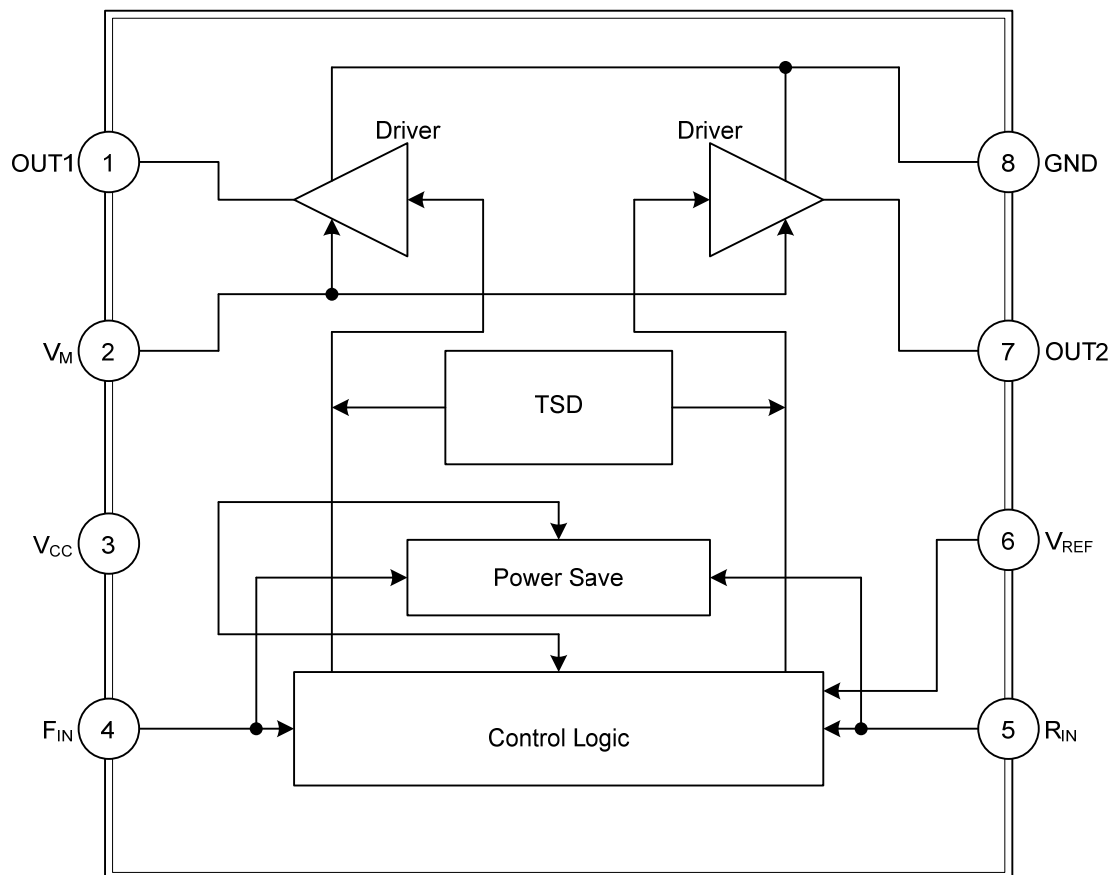
PIN CONFIGURATION



PIN DESCRIPTION

PIN NO.	PIN NAME	FUNCTION
1	OUT1	Motor Output
2	V_M	Motor Power Supply
3	V_{CC}	Power Supply
4	F_{IN}	Logic Input
5	R_{IN}	Logic Input
6	V_{REF}	HIGH Level Output Voltage Setting
7	OUT2	Motor Output
8	GND	GND

BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATING (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Power Supply Voltage	V _{CC}	18	V
Output Current	I _{O(MAX)}	1000 (Note 2, 3)	mA
Power Dissipation	P _D	650 (Note 2)	mW
Derating Factor above 25°C		5.2	mW / °C
Operating Temperature	T _{OPR}	-20 ~ +75	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

Note: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. When mounted on a glass epoxy board (50×50×1.6mm)

3. Should not exceed P_D.

■ RECOMMENDED OPERATING CONDITIONS (T_A=25°C)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply Voltage	V _{CC}	4.5		15	V
Motor Power Supply Voltage	V _M	4.5		15	V
Output High Level Voltage Setting Pin	V _{REF}	4.5		15	V

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, V_{CC}=9V, V_M=9V, V_{REF}=9V, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Current 1	I _{CC1}	Forward or reverse mode	12	24	36	mA
Supply Current 2	I _{CC2}	Brake mode	29	48	67	mA
Standby Supply Current	I _{ST}	Standby mode			15	μA
V _{REF} Pin Sink Current	I _{REF}	Forward or reverse mode I _O =200mA	6	12	18	mA
Input High Level Voltage	V _{IH}		2.0			V
Input Low Level Voltage	V _{IL}				0.8	V
Input High Level Current	I _{IH}	V _{IN} =2.0V	45	90	135	μA
Output Saturation Voltage	V _{CE}	I _O =200mA, Sum of output transistor high-and low-side voltages		1.0	1.5	v

■ TYPICAL APPLICATION CIRCUIT

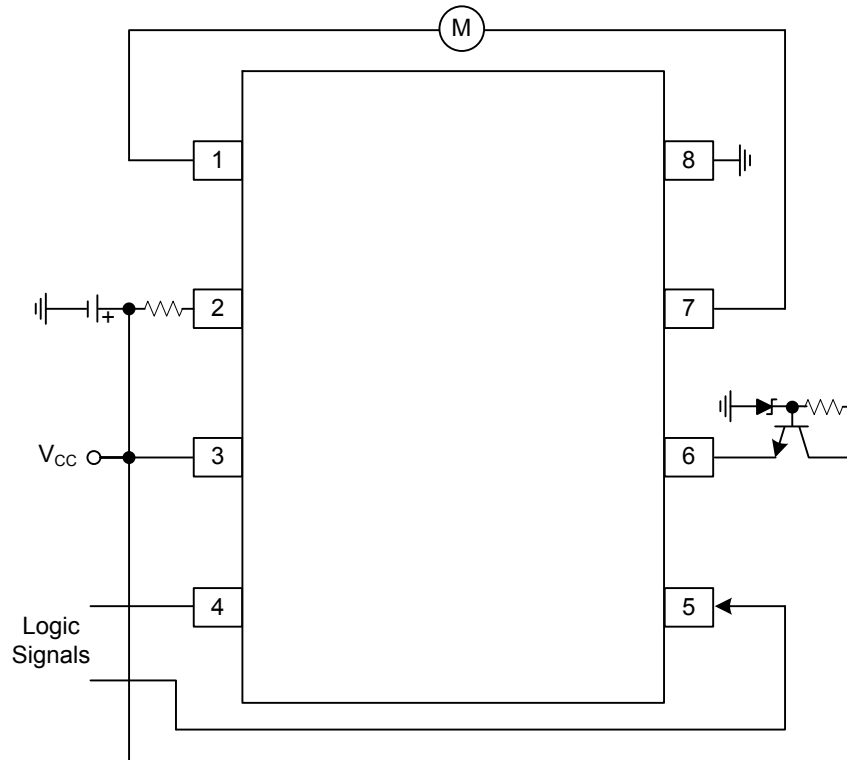


Figure 1.

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