



UA9287

LINEAR INTEGRATED CIRCUIT

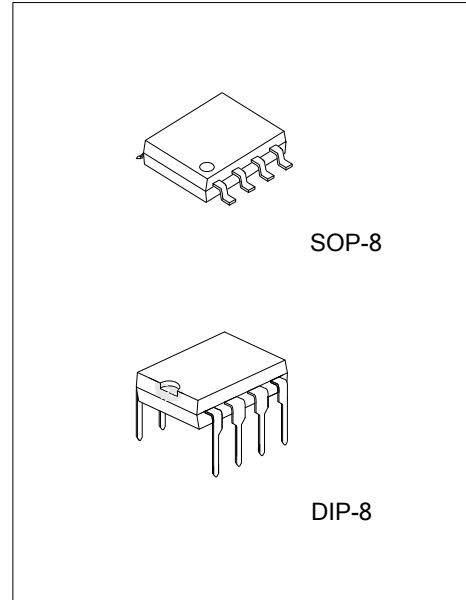
REVERSIBLE MOTOR DRIVER

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

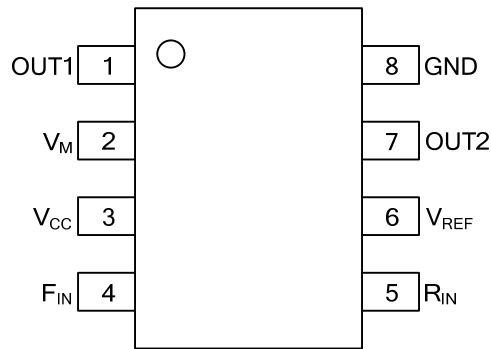
Ordering Number		Package	Packing
Lead Free	Halogen Free		
UA9287L-D08-T	UA9287G-D08-T	DIP-8	Tube
-	UA9287G-S08-R	SOP-8	Tape Reel
-	UA9287G-S08-T	SOP-8	Tube

<p>UA9287L-D08-T</p> <ul style="list-style-type: none"> (1) Packing Type (2) Package Type (3) Green Package 	<ul style="list-style-type: none"> (1) R: Tape Reel, T: Tube (2) D08: DIP-8, S08: SOP-8 (3) L: Lead Free, G: Halogen Free and Lead Free
--	--

MARKING

SOP-8	DIP-8

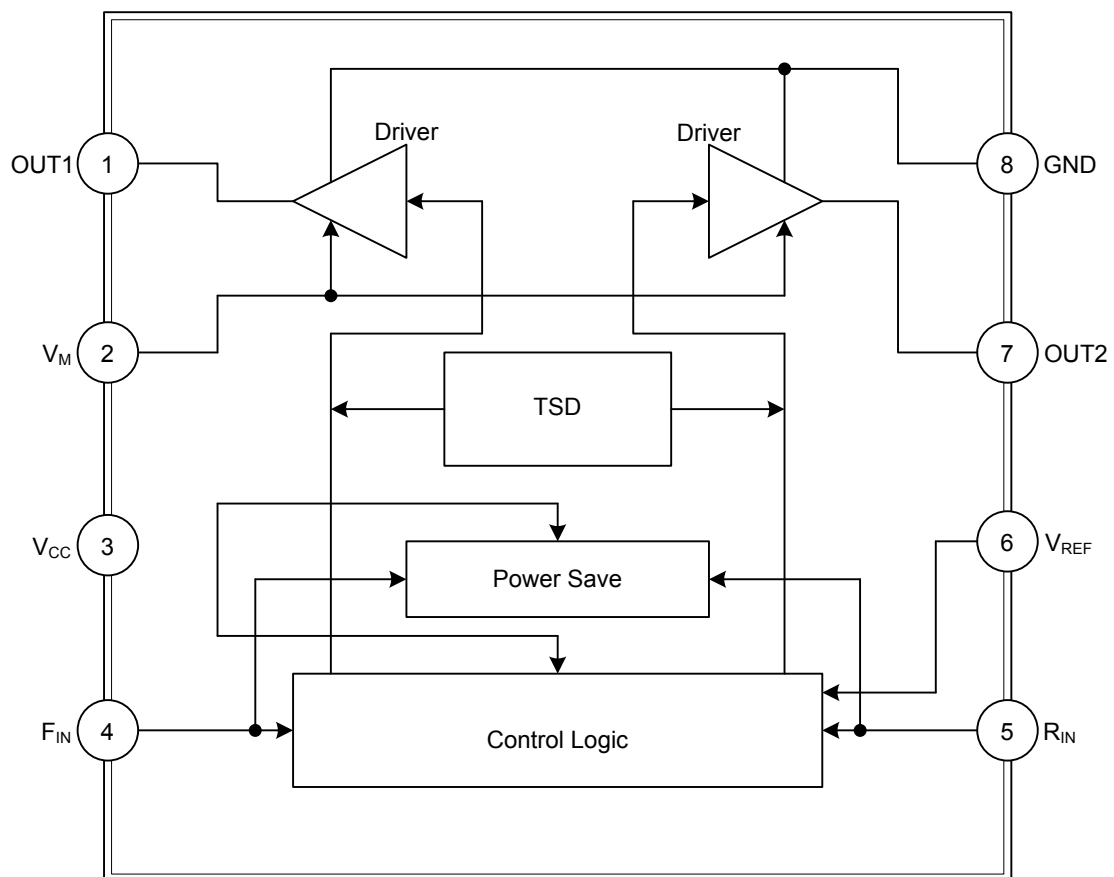
■ PIN CONFIGURATION



■ 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 (Note 2)	SOP-8	600	mW
	DIP-8	680	mW
Operating Temperature	T _{OPR}	-20 ~ +75	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

Notes: 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

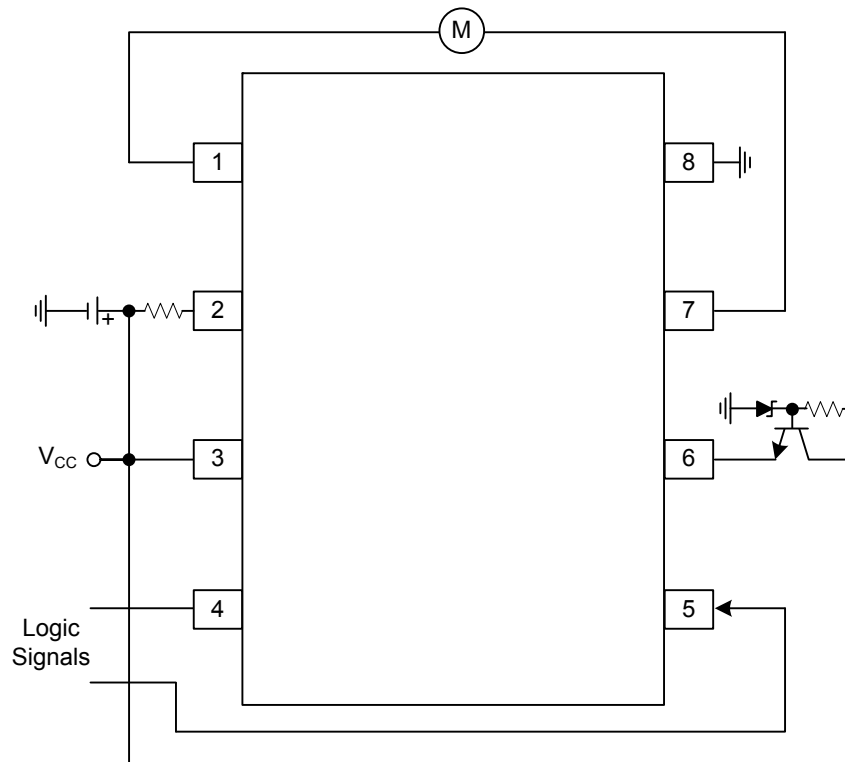


Figure 1.

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Motor/Motion/Ignition Controllers & Drivers](#) category:

Click to view products by [Unisonic](#) manufacturer:

Other Similar products are found below :

[LV8774Q-AH](#) [MC33931EKR2](#) [FSB50550TB2](#) [FSBF15CH60BTH](#) [MSVCPM2-63-12](#) [MSVGW45-14-2](#) [MSVGW54-14-3](#) [NTE7043](#)
[LA6245P-CL-TLM-E](#) [LA6565VR-TLM-E](#) [LB11650-E](#) [LB1837M-TLM-E](#) [LB1845DAZ-XE](#) [LC898300XA-MH](#) [SS30-TE-L-E](#) [STK531-345A-E](#) [STK581U3A0D-E](#) [STK621-728S-E](#) [STK625-728-E](#) [STK672-400B-E](#) [AMIS30621AUA](#) [LV8281VR-TLM-H](#) [BA5839FP-E2](#)
[IRAM236-1067A](#) [LA6584JA-AH](#) [LB11847L-E](#) [LB1845L-E](#) [LC898122XA-VH](#) [LC898212XD-SH](#) [NCV70501DW002R2G](#) [STK531U340A-E](#) [STK554U361A-E](#) [STK554U394A-E](#) [STK621-043D-E](#) [STK621-068R-E](#) [STK621-141A-E](#) [STK621-713-E](#) [STK672-600A](#) [STK760-221A-E](#) [STK760-304-E](#) [AH293-PL-B](#) [TND315S-TL-2H](#) [FNA23060](#) [FSB50250AB](#) [FNA41060](#) [MSVBTC50E](#) [MSVCPM3-54-12](#) [MSVCPM3-63-12](#) [MSVCPM4-63-12](#) [FSB50550AB](#)