



ZHEJIANG UNI-NE Technology CO., LTD

浙江宇力微新能源科技有限公司



U44273 Data Sheet

V1.1

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General Description

The U44273 single-channel, high-speed, low-side gate driver device is capable of effectively driving MOSFET and IGBT power switches.

Logic inputs are compatible with standard CMOS or LSTTL output, down to 3.3V logic. Provide high peak pulling/charging current pulses for capacitive loads, while also providing rail to rail drive Dynamic ability and short propagation delay.

The U44273 is designed to operate over a wide VDD range of 5V to 20V and wide temperature range of -40°C to 140°C. Internal Under voltage Lockout(UVLO) circuitry on VDD pin holds output low outside VDD operating range.

Product Summary

VCC	5V - 20V
IO+/-	2.5A / 3.0A
VCCon/off(typ.)	4.8V & 4.5V
ton/off (typ.)	120ns & 300ns
Work Tem	-40°C~125°C

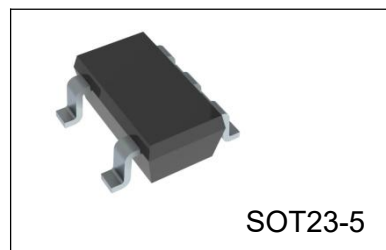
Key Features

- Output held low when input pin is floating
- Gate drive supply range from 5V to 20V
- Under voltage lockout for both channels
- 3.3V 5V logic compatible
- Separate logic supply range from 3.3V to 20V
- CMOS Schmitt-triggered inputs with pull-down
- Cycle by cycle edge-triggered shutdown logic

Applications

- Home appliances
- Industrial applications and drives
- Motor drivers
- DC, AC, PMDC and PMAC motors
- HVAC

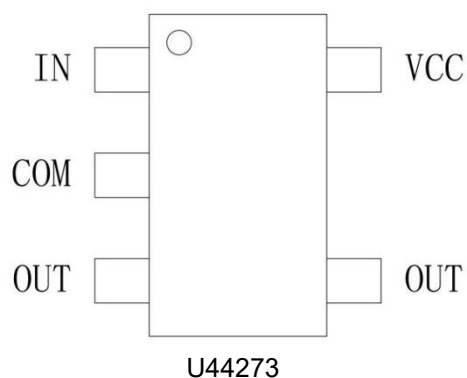
Packages



Product Information

Base Part Number	Package Type	Standard OUT		V _{CC}	Logic Control
		IO+	IO-		
U44273	SOT23-5	2.5A	3.0A	20V	IN

Pin Assignments

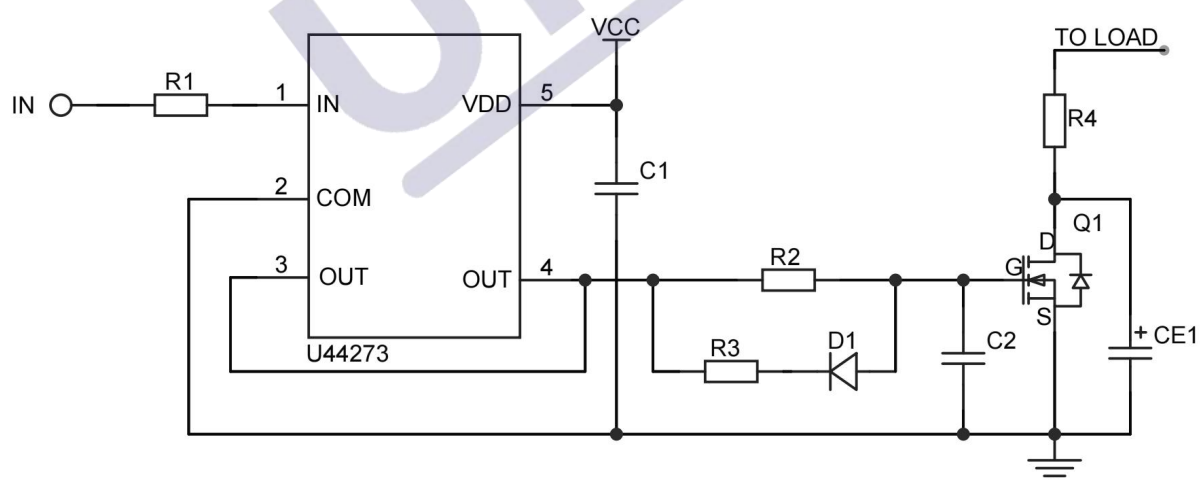


U44273

Pin Function

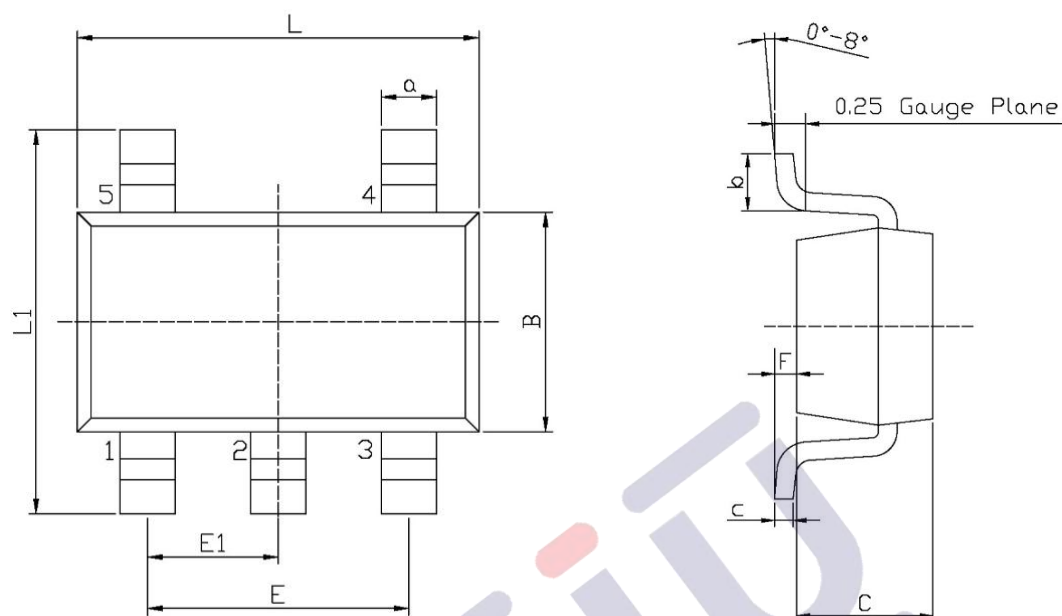
Number	Symbol	Description
1	IN	Drive input
2	COM	Low side return
3,4	OUT	Drive the output
6	VCC	Low side supply

Typical Connection



Packaging information

SOT23-5



Unit: mm

Symbol	Dimension In Millimeter		Symbol	Dimension In Millimeter	
	Min	Max		Min	Max
L	2.82	3.02	E1	0.85	1.05
B	1.50	1.70	a	0.35	0.50
C	0.90	1.30	c	0.10	0.20
L1	2.60	3.00	b	0.35	0.55
E	1.80	2.00	F	0	0.15

1、版本记录

DATE	REV.	DESCRIPTION
2021/04/19	1.0	首次发布
2022/11/12	1.1	布局调整

2、免责声明

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3、联系我们

浙江宇力微新能源科技有限公司

总部地址：绍兴市越城区斗门街道袍渚路25号中节能科创园45幢4/5楼

电话：0575-85087896（研发部）

传真：0575-88125157

E-mail:htw@uni-semic.com

无锡地址：无锡市锡山区先锋中路6号中国电子（无锡）数字芯城1#综合楼503室

电话:0510-85297939

E-mail:zh@uni-semic.com

深圳地址：深圳市宝安区西乡街道南昌社区宝源路泳辉国际商务大厦410

电话：0755-84510976

E-mail:htw@uni-semic.com