



ZHEJIANG UNIU-NE Technology CO., LTD

浙江宇力微新能源科技有限公司



U393 Data Sheet

V 1.2

版权归浙江宇力微新能源科技有限公司

Dual Differential Comparators

U393

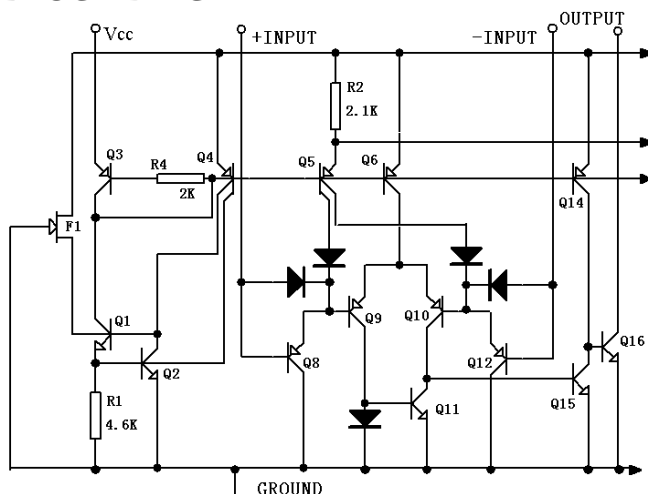
DESCRIPTION:

The U393 consists of two independent voltage comparators with an offset voltage specification as low as 2.0mV max. for two comparators which were designed specifically to operation from a single power supply over a wide range of voltages. Operate from split power supplies is also possible, and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

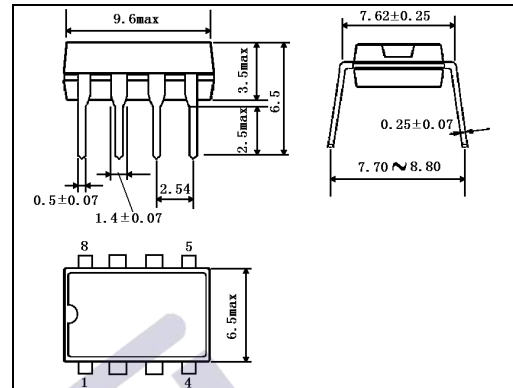
FEATURE:

- Wide supply voltage range: single supply operation: 2V to 36V dual supply operation: $\pm 1V$ to $\pm 18V$
- Very low supply current drain (0.8mA) independent of supply voltage (2.0mW/comparator at 5.0 VDC)
- Low input biasing current: 25nA
- Low input offset current: 5.0nA; Low input offset voltage: 5.0mV
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Output voltage compatible with TTL, DTL, ECL, MOS and CMOS logic systems.

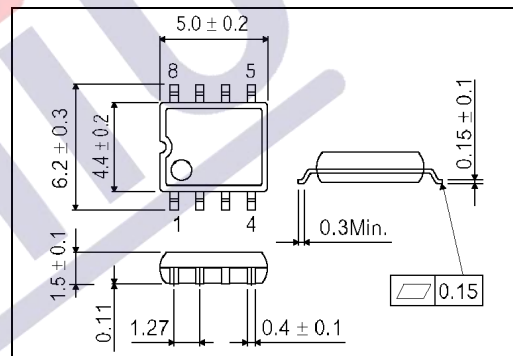
BLOCK DIAGRAM



Outline Drawing

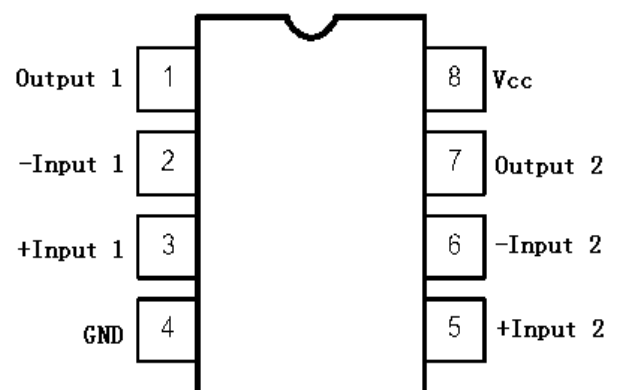


DIP8

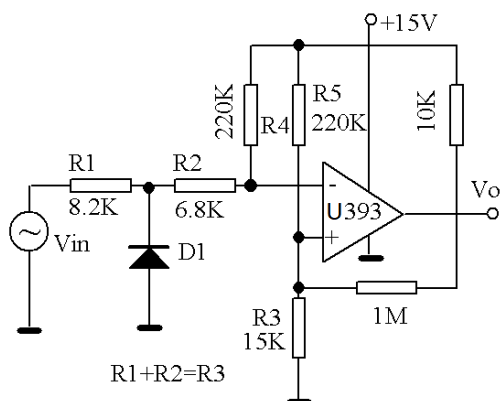


SOP8

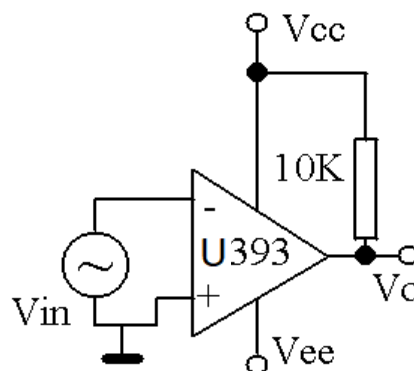
PIN CONFIGURATION



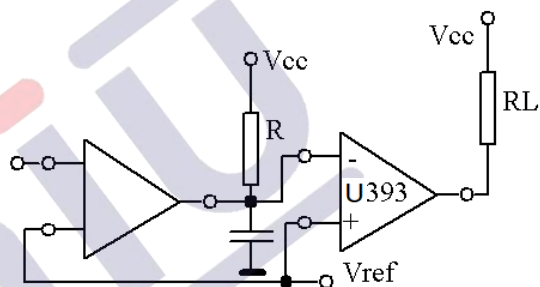
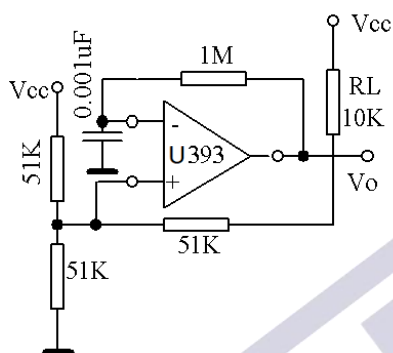
APPLICATION CIRCUIT



Applied single power Supply



Applied split power supplies



1.版本记录

DATE	REV.	DESCRIPTION
2018/04/19	1.0	First Release
2021/06/12	1.1	Layout adjustment
2024/09/05	1.2	Parameter adjustment

2.免责声明

浙江宇力微新能源科技有限公司保留对本文档的更改和解释权力，不另行通知！客户在下单前应获取我司最新版本资料，并验证相关信息是否最新和完整。量产方案需使用方自行验证并自担所有批量风险责任。未经我司授权，该文件不得私自复制和修改。产品不断提升，以追求高品质、稳定性强、可靠性高、环保、节能、高效为目标，我司将竭诚为客户提供性价比高的系统开发方案、技术支持等更优秀的服务。

版权所有 浙江宇力微新能源科技有限公司/绍兴宇力半导体有限公司

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渎路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:江苏省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