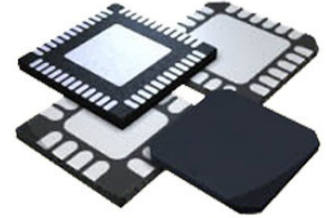


## OLED Driver 4.5V 300mA 10-Pin VSON EP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** QFN

**Product Type:** Optoelectronics

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The TPS65138 is designed to drive AMOLED displays (Active Matrix Organic Light Emitting Diode) requiring positive and negative supply rails. The device integrates boost converter and inverting buck boost converter designed suitable for battery operated products. The digital control pin (CTRL) allows programming the negative output voltage in digital steps. The TPS65138 uses a novel technology enabling excellent line and load regulation. This is required to avoid disturbance of the AMOLED display by the input voltage disturbances occurring during transmit periods in mobile phones.

## Key Features

2.9V to 4.5V Input Voltage Range

0.8% Output Voltage Accuracy VPOS

Excellent Line Transient Regulation

300mA Output Current

Fixed 4.62V Positive Output Voltage

Digitally Programmable VNEG  
TPS65138: -2.2V to -6.2V

TPS65138A: -2.2V to -5.2V

-4.9V Default Value for VNEG

Short Circuit Protection

Thermal Shutdown

3-mm × 3-mm QFN Package

### Description

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## Recommended For You

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### **TPS61196PWRQ1**

Texas Instruments, Inc

HTSSOP28

### **TPS92391RHBR**

Texas Instruments, Inc

VQFN32

### **TLC591161TPWRQ1**

Texas Instruments, Inc

TSSOP28

### **TPS92692QPWPTQ1**

Texas Instruments, Inc

HTSSOP20

### **TPS92691PWP**

Texas Instruments, Inc

HTSSOP-16

### **TPS92691PWPR**

Texas Instruments, Inc

HTSSOP16

### **TPS92633QPWRQ1**

Texas Instruments, Inc

HTSSOP20

### **TPS61161QDRVQ1**

Texas Instruments, Inc

WSO-6

### **TPS61194PWRQ1**

Texas Instruments, Inc

HTSSOP20

### **TPS92520QDADRQ1**

Texas Instruments, Inc

HTSSOP32

### **TPS92630QPWRQ1**

Texas Instruments, Inc

HTSSOP16

### **TPS92691QPWRQ1**

Texas Instruments, Inc

HTSSOP-16

**TPS92692QPWRQ1**

Texas Instruments, Inc

HTSSOP-20

**TPS65132SYFFR**

Texas Instruments, Inc

DSBGA-15

**TPS65132B2YFFR**

Texas Instruments, Inc

DSBGA15