

## 3.8V-60V Vin, 2.5A, High Efficiency Step-down DCDC Converter with Programmable Frequency

### FEATURES

## REVISION HISTORY

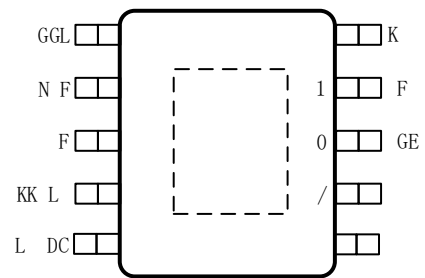
## DEVICE ORDER INFORMATION

1)		

## ABSOLUTE MAXIMUM RATINGS


- (1)
- (2)

## PIN CONFIGURATION



## PIN FUNCTIONS



**RECOMMENDED OPERATING CONDITIONS**


**ESD RATINGS**


- (1)
- (2)

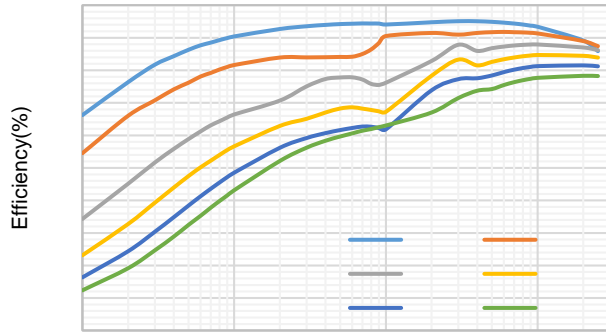
**THERMAL INFORMATION**


**ELECTRICAL CHARACTERISTICS**

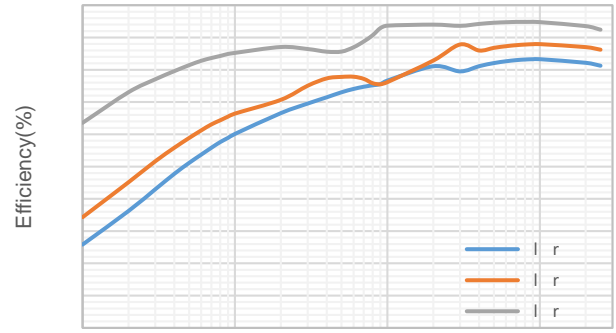




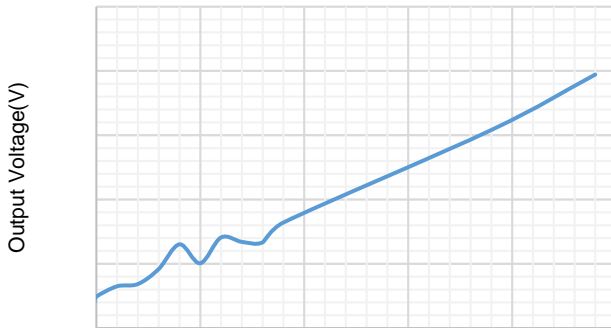

# TYPICAL CHARACTERISTICS



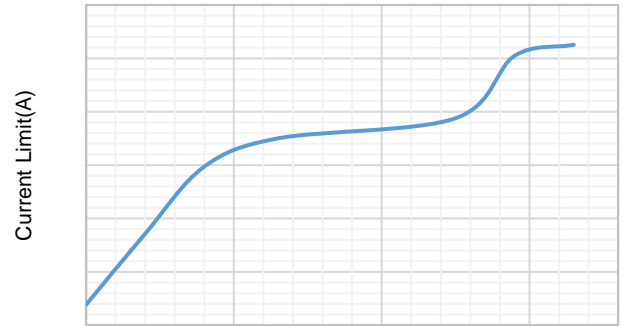
Output Current(A)



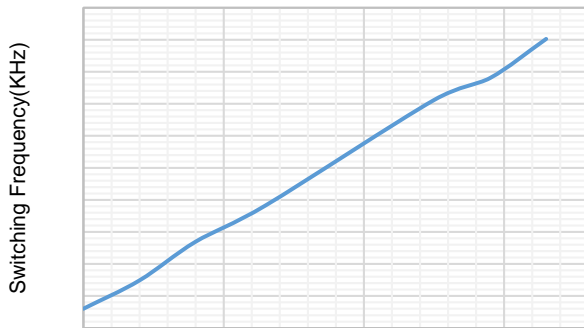
Output Current(A)



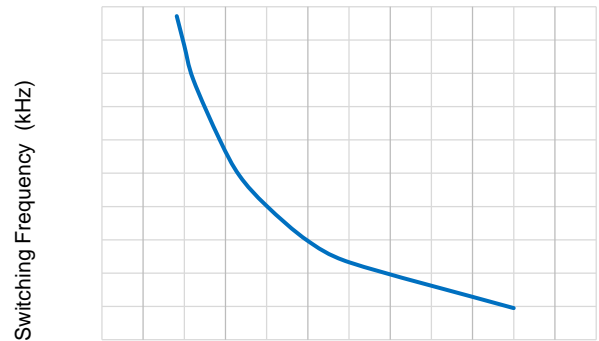
Output Current(A)



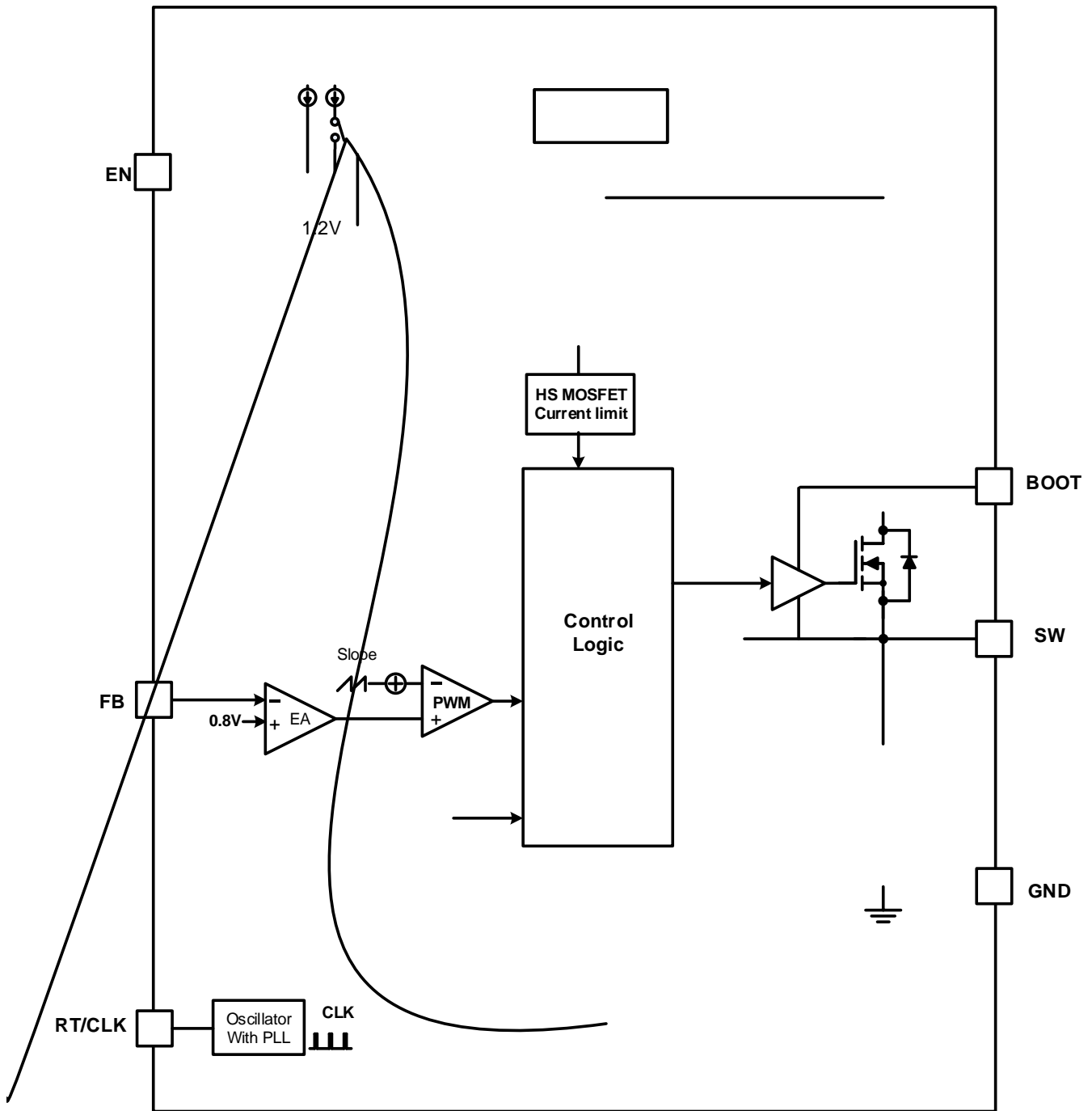
Temperature(°C)



Temperature(°C)



# FUNCTIONAL BLOCK DIAGRAM



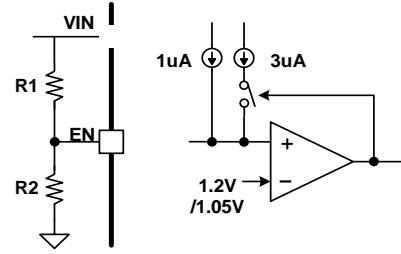
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## **OPERATION**

### **Overview**

### **Peak Current Mode Control**

### **Enable and Under Voltage Lockout Threshold**



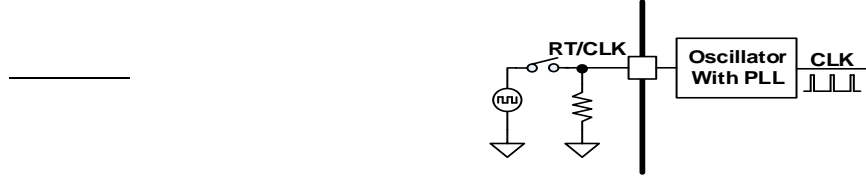
**Output Voltage**

1%



**Switching Frequency and Clock Synchronization**





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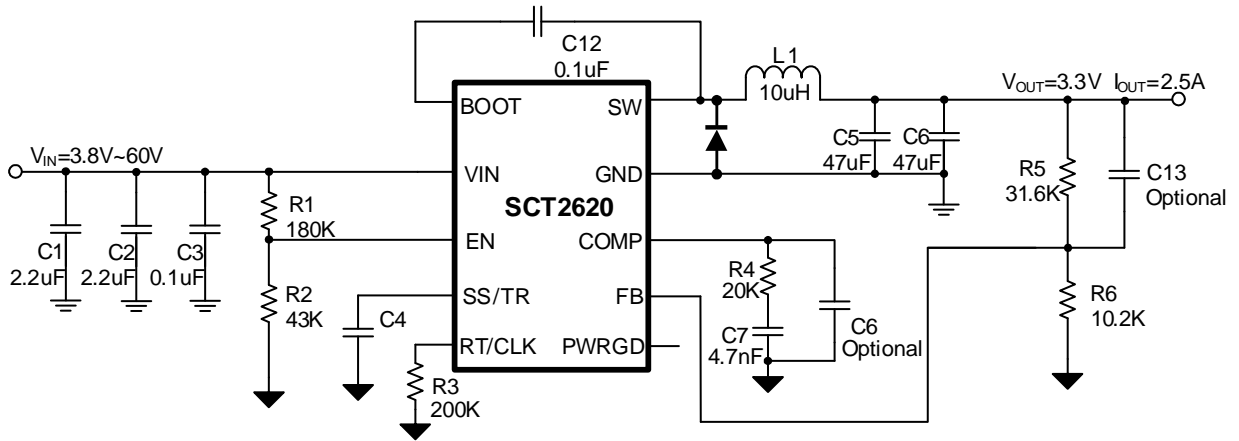
**Over voltage Protection**

**Power Good (PWRGD Pin)**

**Thermal Shutdown**

# APPLICATION INFORMATION

## Typical Application



### Design Parameters



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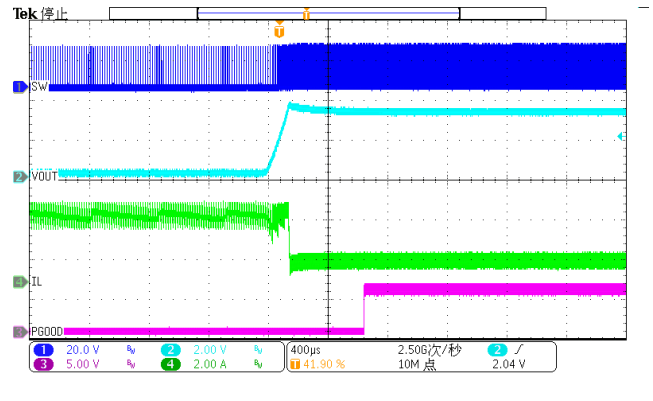
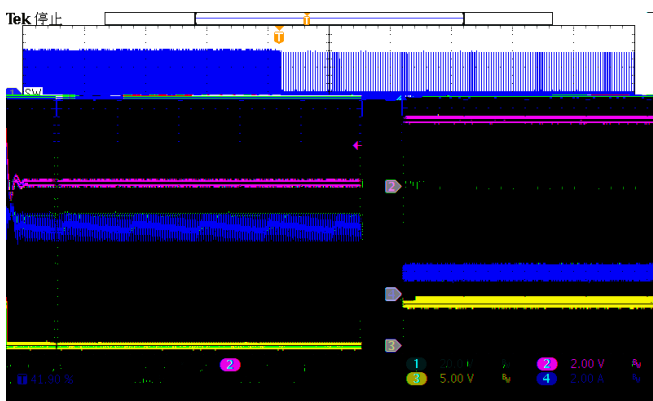
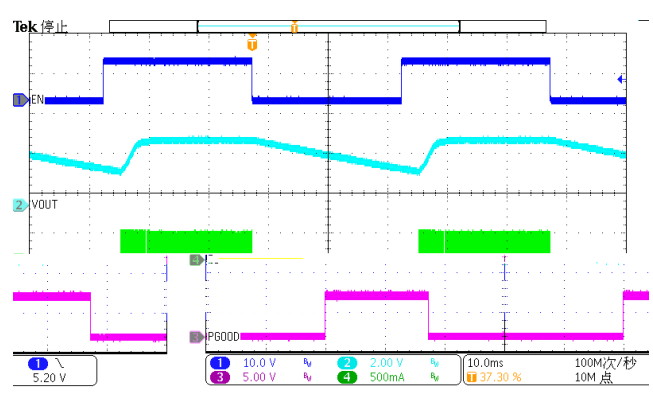
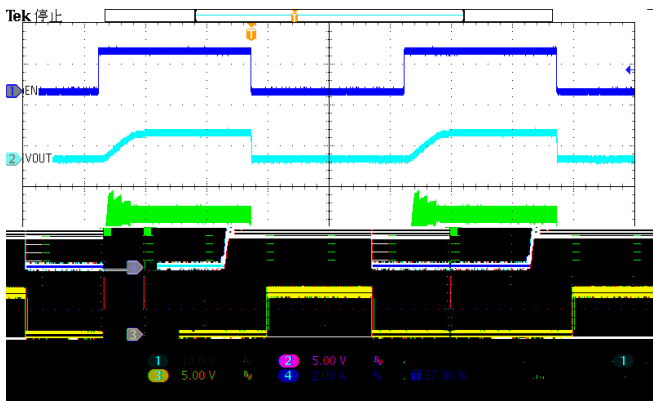
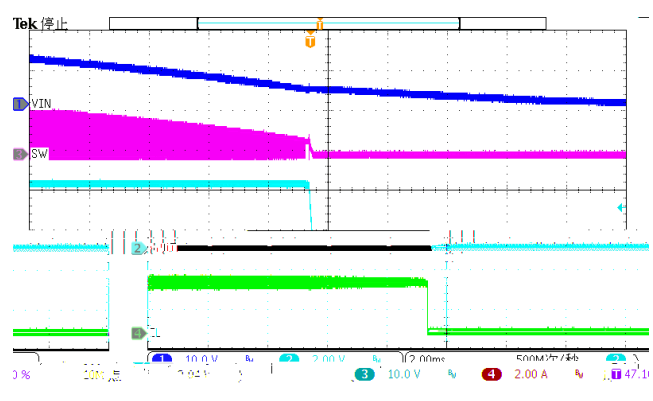
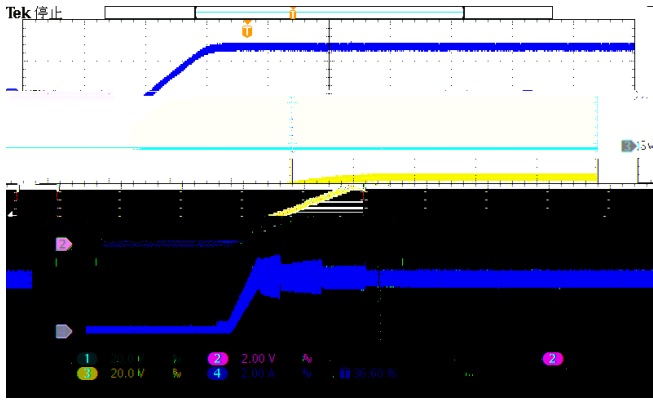


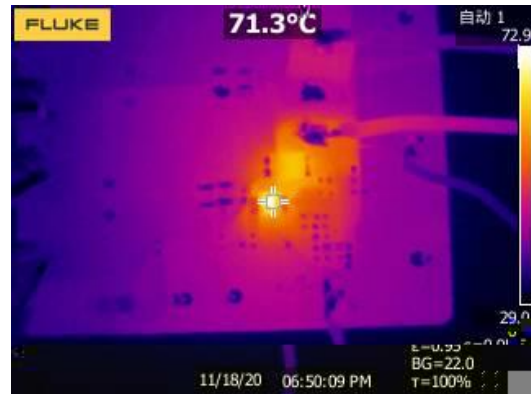
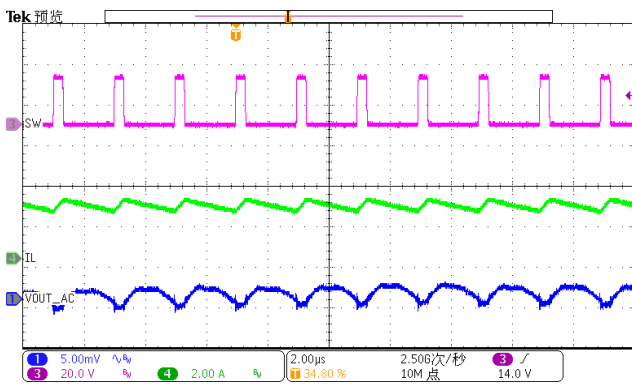
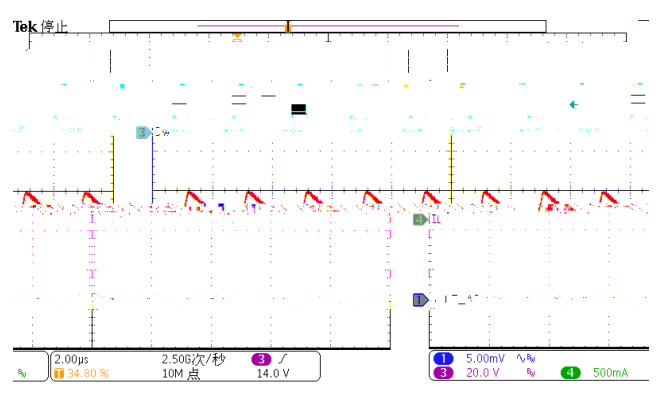
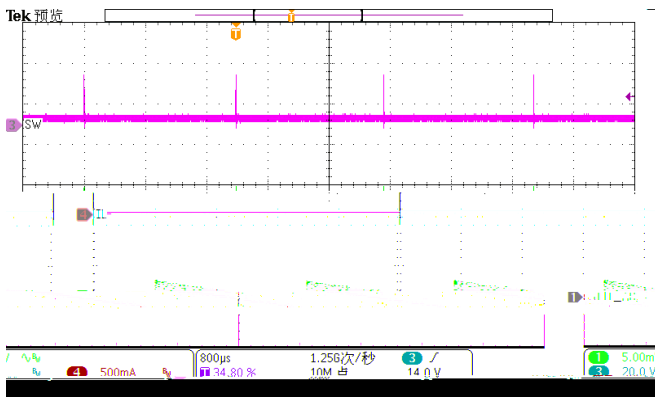
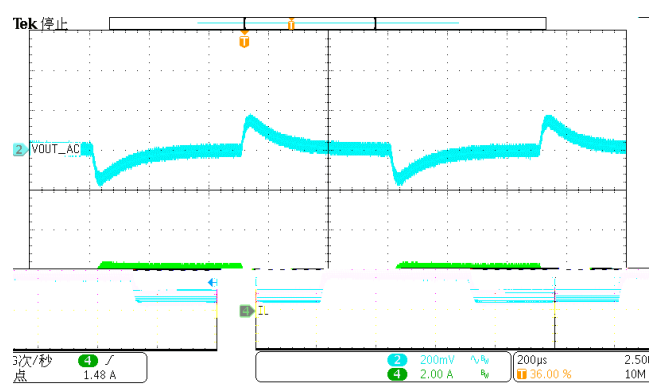
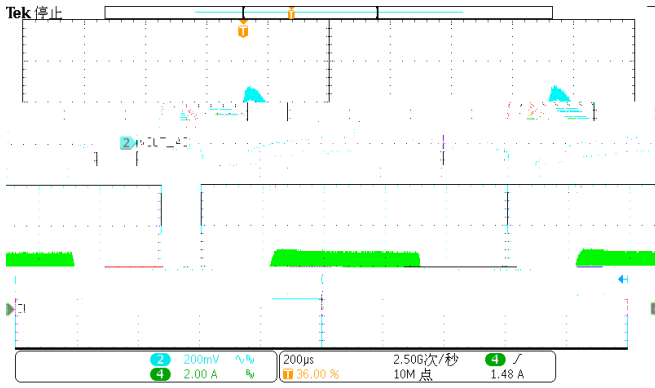












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## Layout Guideline

1.



# TAPE AND REEL INFORMATION