

M MMe e e e  
D I e

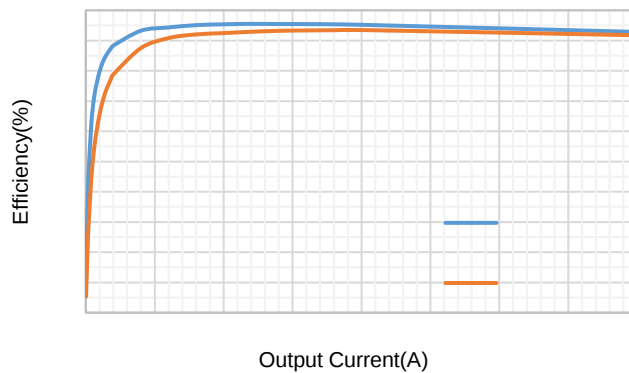
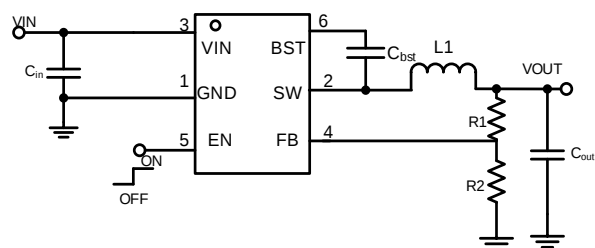
KL I

I GK FE

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GGC K FE

KPG C GGC K FE



# I M F E K F I P

## M F I I E F I D K F E

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## F C L K D O D L D I K E

Over operating free-air temperature unless otherwise noted <sup>(1)</sup>

| DESCRIPTION                                   | MIN  | MAX | UNIT |
|-----------------------------------------------|------|-----|------|
| BST                                           | -0.3 | 38  | V    |
| VIN <sup>(2)</sup>                            | -0.3 | 32  | V    |
| SW                                            | -0.3 | 32  | V    |
| SW (<10ns) <sup>(3)</sup>                     | -3   | 32  | V    |
| BST-SW                                        | -0.3 | 5.5 | V    |
| EN, FB                                        | -0.3 | 5.5 | V    |
| Operating junction temperature <sup>(4)</sup> | -40  | 150 | °C   |
| Storage temperature T <sub>STG</sub>          | -65  | 150 | °C   |

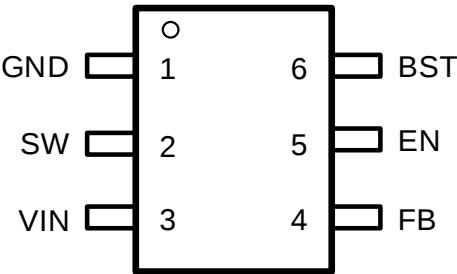
(1)

(2)

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(4)

## G E F E L I K F E



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**I FDD E FG I KE FE KFE**

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**I KE**

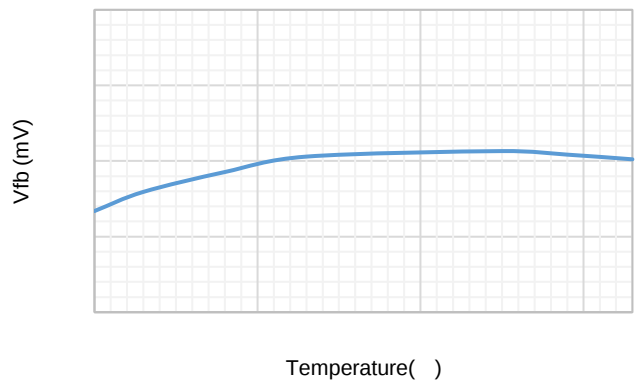
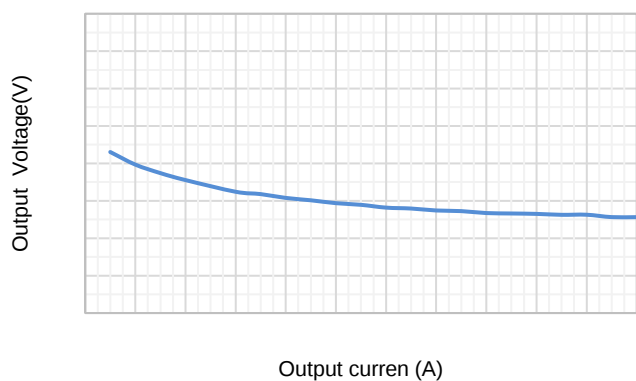
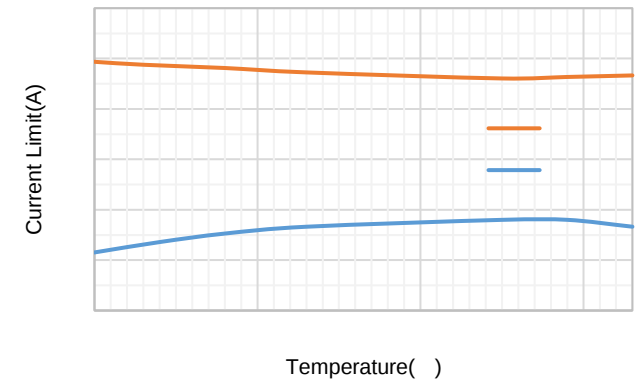
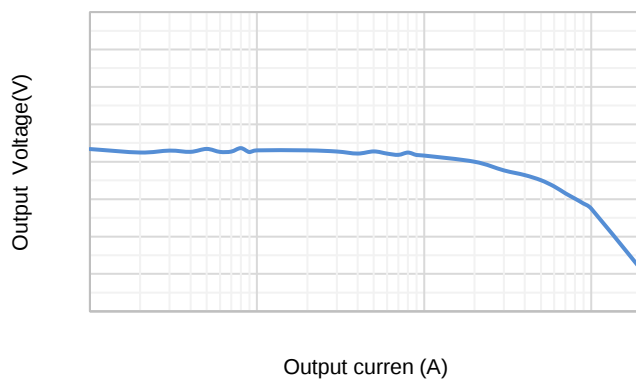
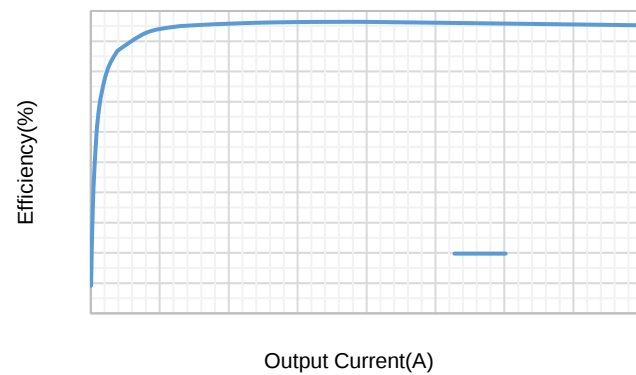
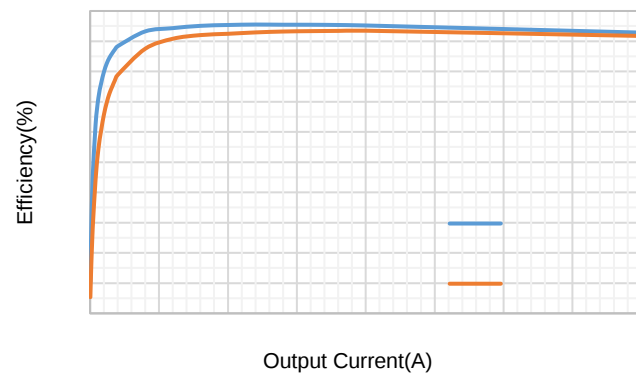
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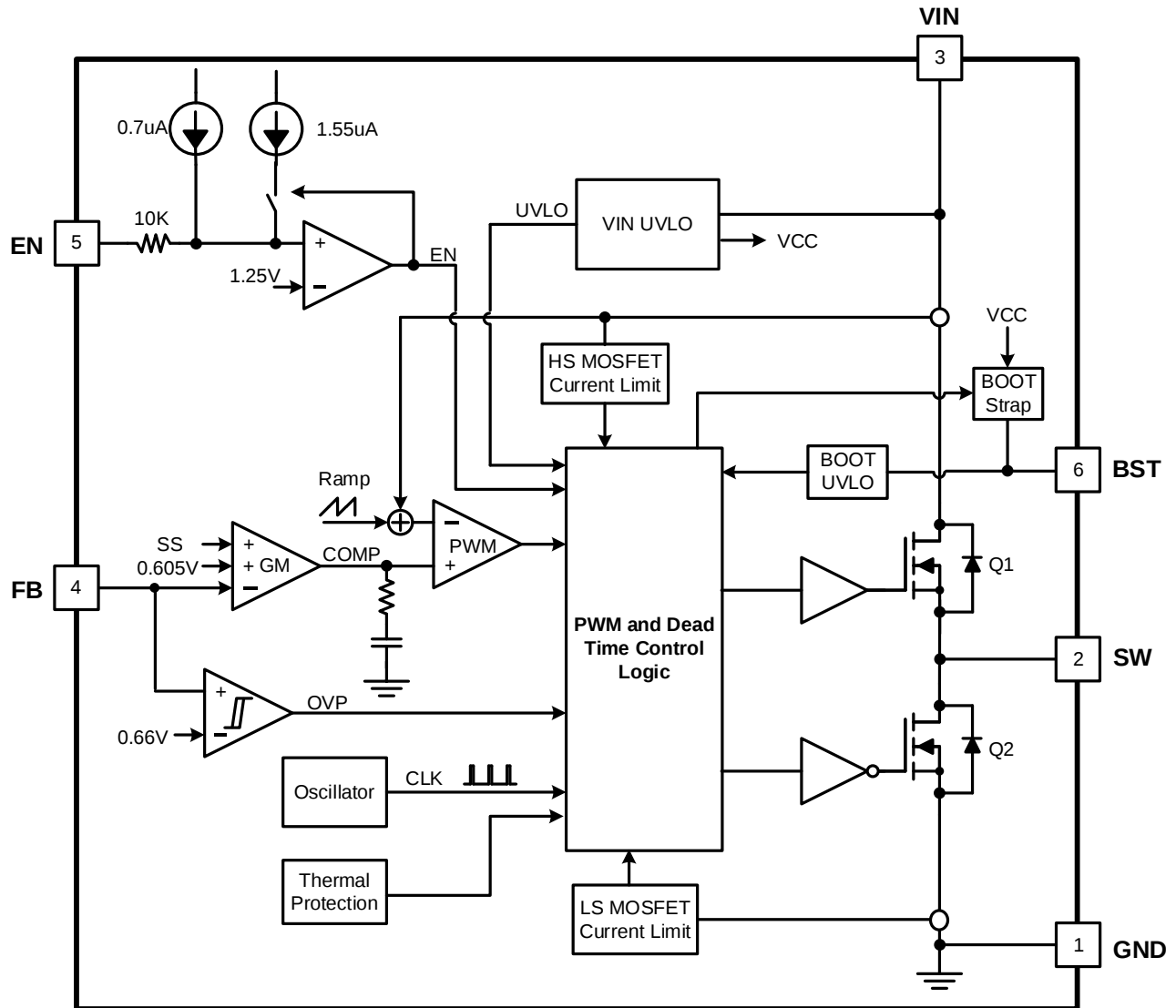
C K I C I K I K

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KPG C I K I K

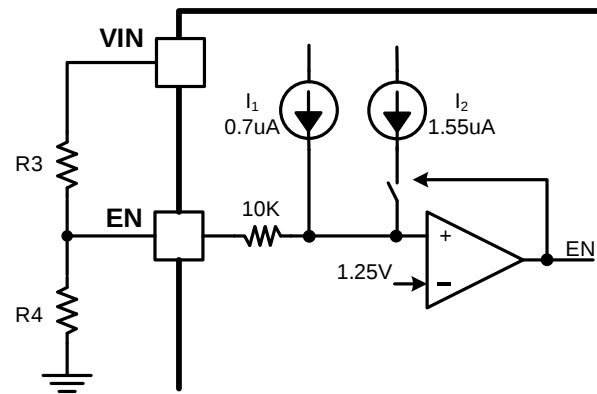


# LE KFE C CF I D



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**FG I KFE**



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The inductor current is monitored during high-side MOSFET Q1 and low-side MOSFET Q2 on. The SCT2321E implements over current protection with cycle-by-cycle limiting high-side MOSFET peak current and low-side MOSFET valley current to avoid inductor current running away during unexpected overload or output hard short condition.

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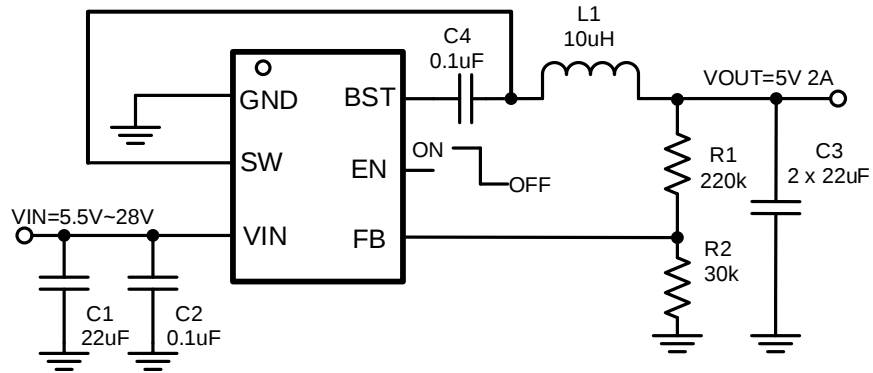
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## GGC KFE E FID KFE

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| Design Parameters                    | Example Value        |
|--------------------------------------|----------------------|
| Input Voltage                        | 12V typical, 5.5~28V |
| Output Voltage                       | 5V                   |
| Output Current                       | 2A                   |
| Output voltage ripple (peak to peak) | 8mV                  |
| Switching Frequency                  | 410kHz               |



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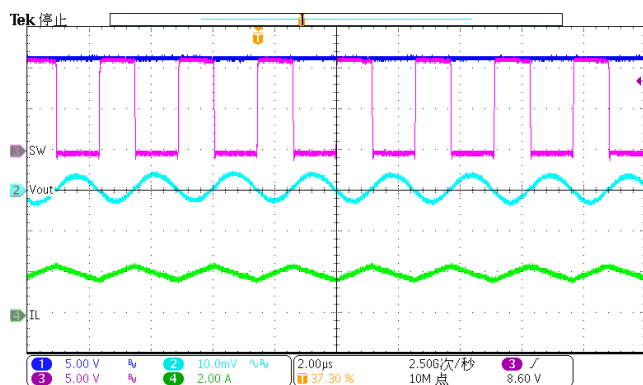
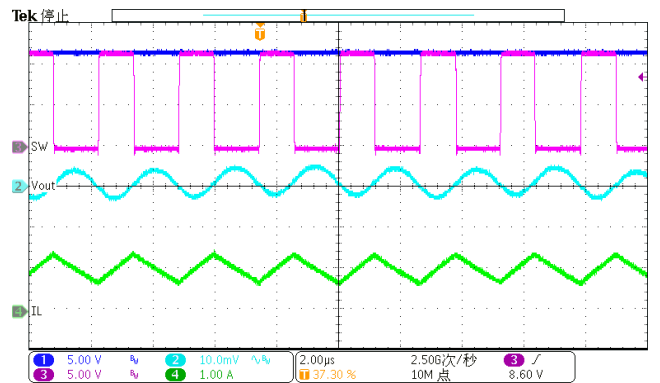
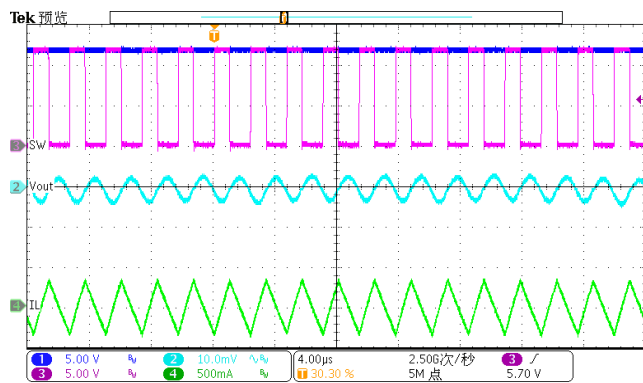
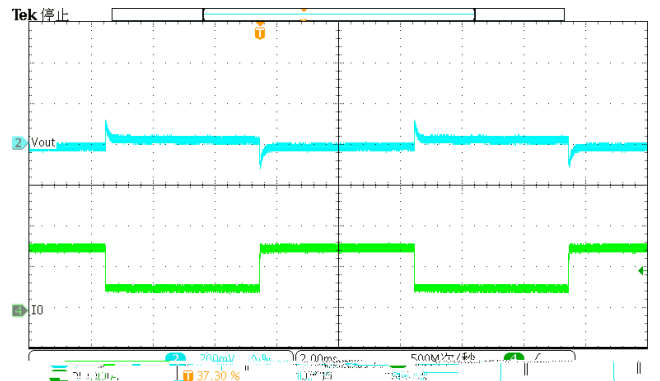
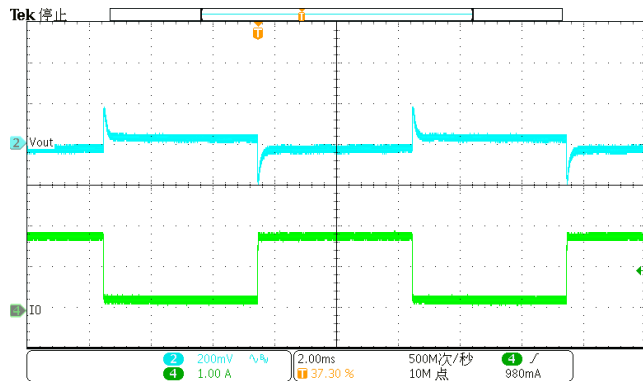
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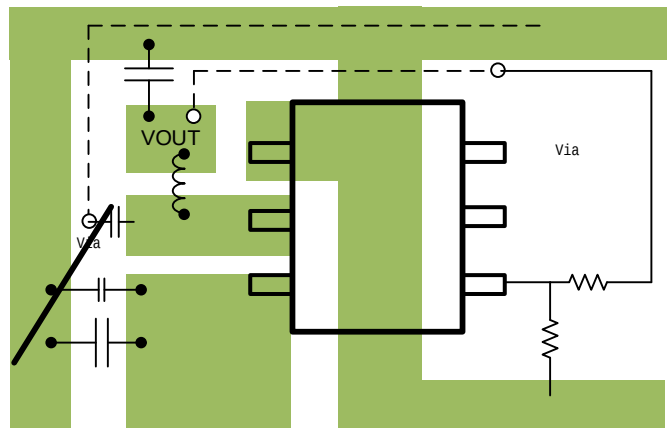
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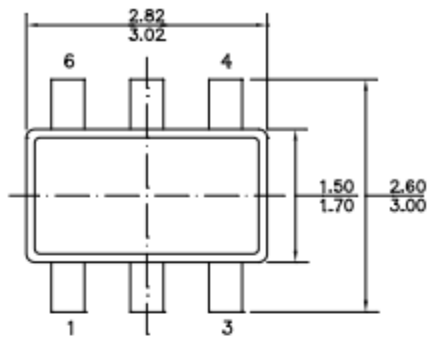




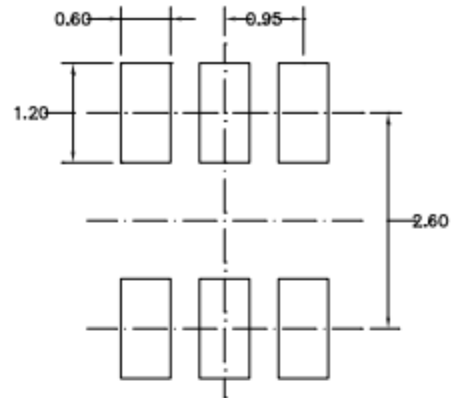
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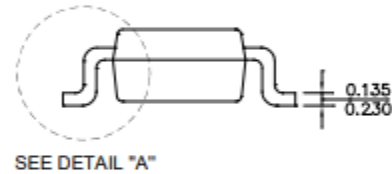
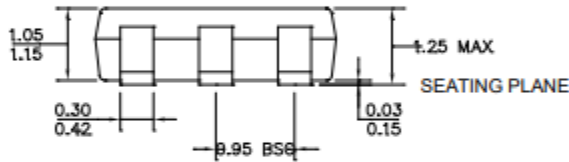
# G E F I D K F E



**TOP VIEW**



**RECOMMENDED LAND PATTERN**



SEE DETAIL "A"

