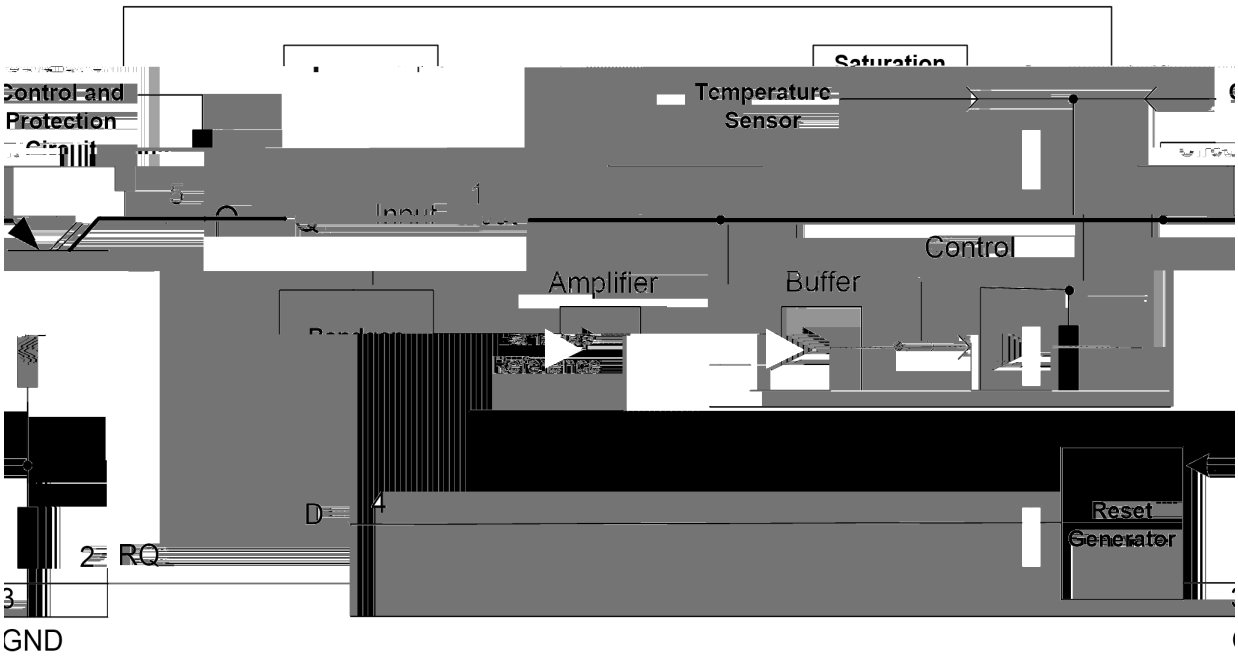
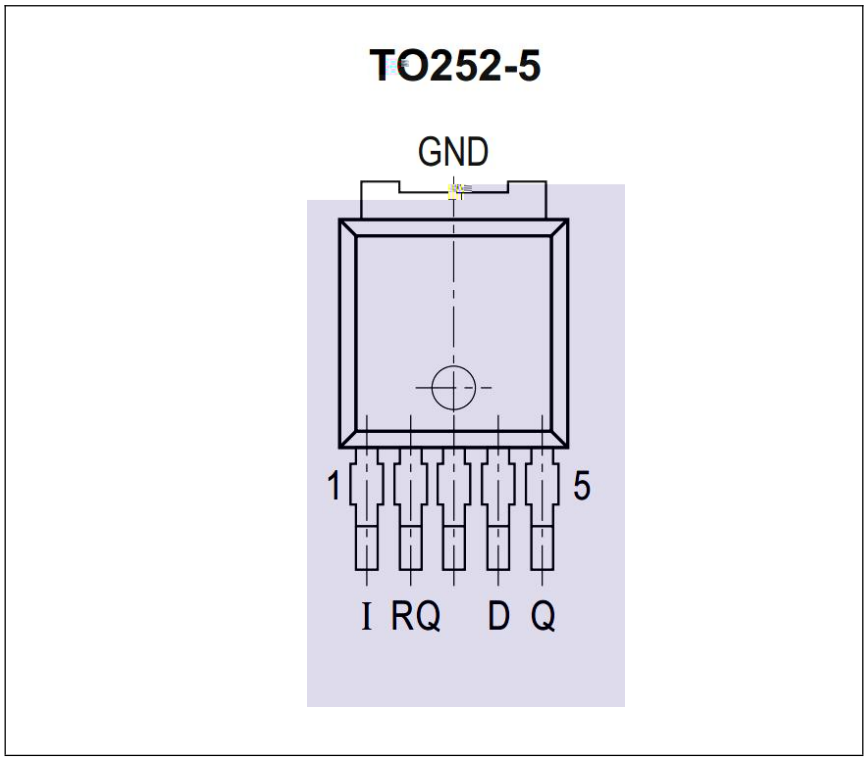
[redacted]

450mA


Temperature
Sensor
Control
Amplifier
Buffer
Reset
Generator
GND



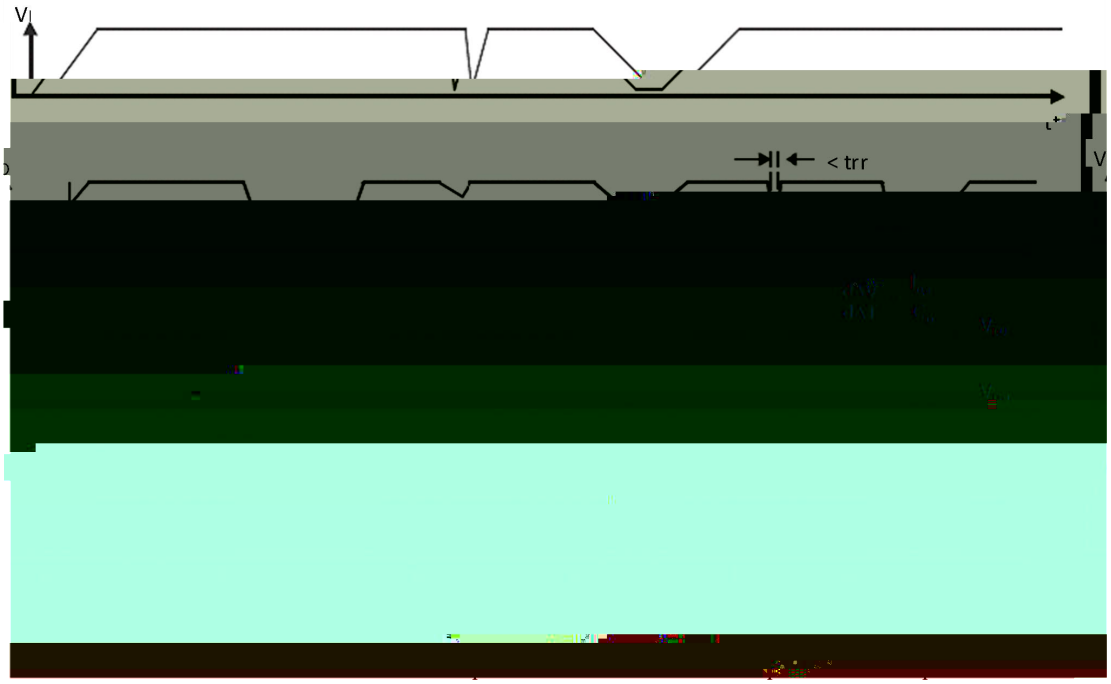

| | | |
|---|---|---|
| 1 | I | IC m |
| 2 | RQ | VRT RQ |
| 3 | GND | |
| 4 | D | |
| 5 | Q | 10KHz $C_Q$≥22uF ESR<5Ω |

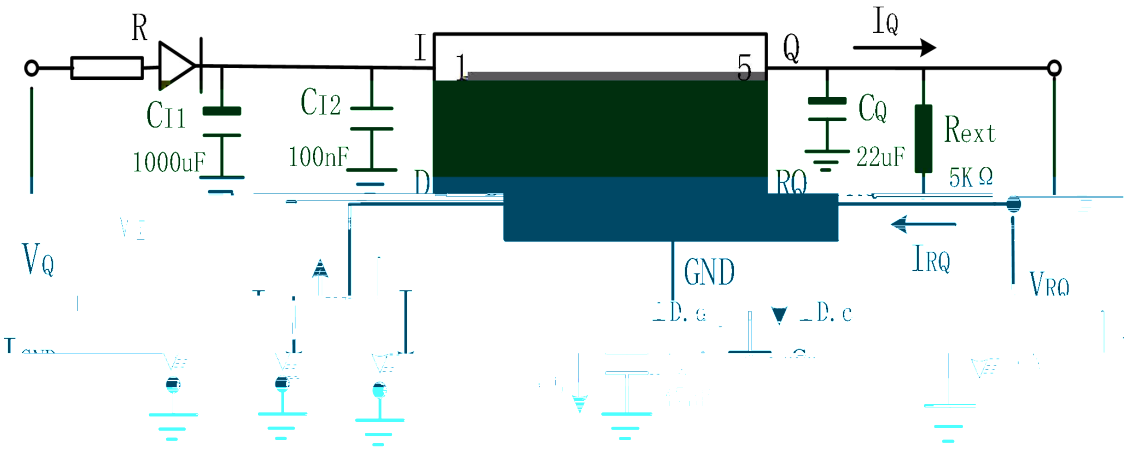
Tj=-40 150

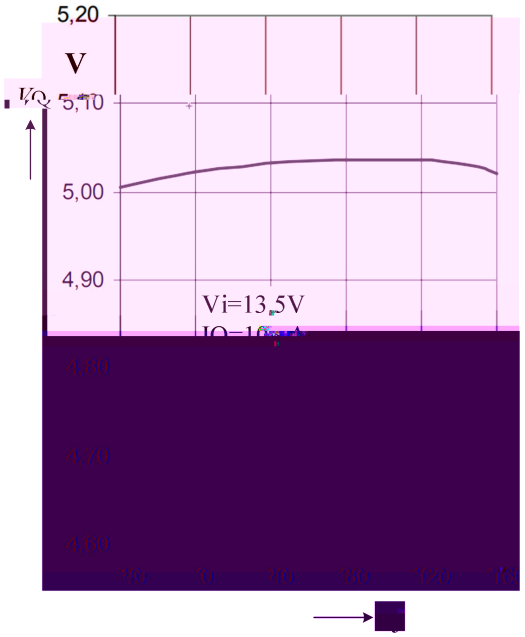
VI = 13.5V -40 ≤ Tj ≤ 150

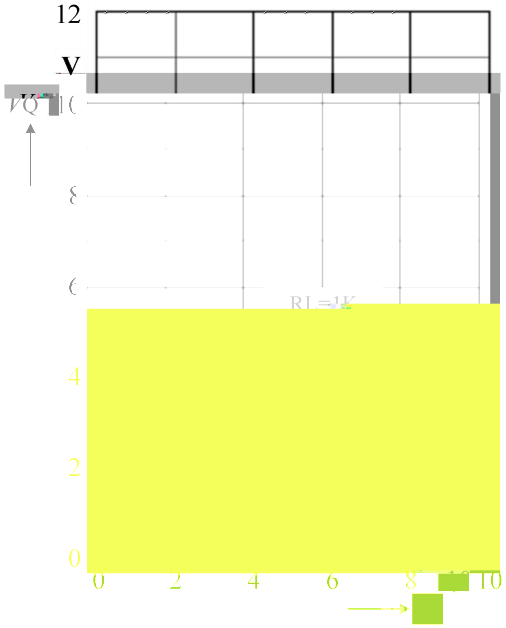
| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| | VI | 5.5 | 13.5 | 42 | V | |
| | VQ | 4.9 | 5.0 | 5.1 | V | IQ<450m;VI<42V |
| | IQ | 450 | 800 | | mA | VI=13.5V |
| | Iq1 | | 80 | 100 | uA | IQ = 5mA |
| | Iq2 | | | 0.5 | mA | IQ = 400mA |
| | Vdr | | 0.3 | 0.5 | V | IQ = 300mA |
| | ΔVQLo | | | 150 | mV | 5mA<IQ<450mA |
| | ΔVQLi | | 2 | 10 | mV | 8V<VI<40V,$I_Q$=5mA |
| | PSRR | | 70 | | dB | 100HZ@0.5Vpp |
| | $C_Q$ | | 22 | | uF | ESR≤5Ω@10KHZ |
| | $T_{SD}$ | | 150 | | | |
| | $T_{SDHYS}$ | | 25 | | | |

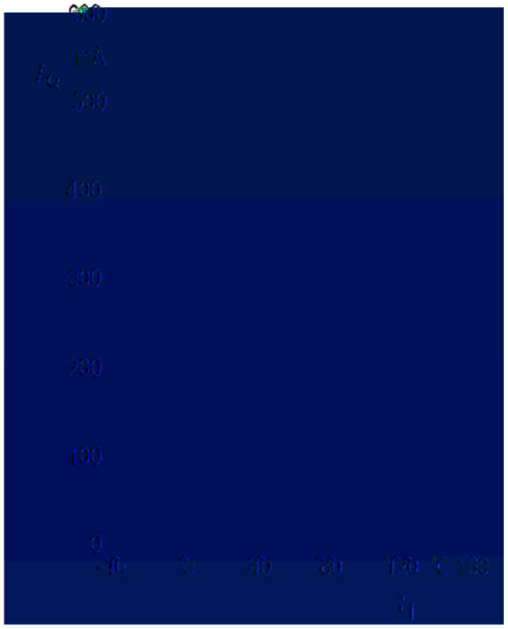
| | | | | | | |
|---|---|---|---|---|---|---|
| | $V_{RT}$ | 4.5 | 4.65 | 4.8 | V | |
| | Vhys | | 0.2 | | V | |
| | $t_{rr}$ | | | 2 | us | |
| | $V_{RQL}$ | | | 0.4 | V | Rext≥5KΩ ;VQ<VRT |
| | $I_{RQ}$ | | 0 | 1 | uA | $V_{RQ}$=5V |

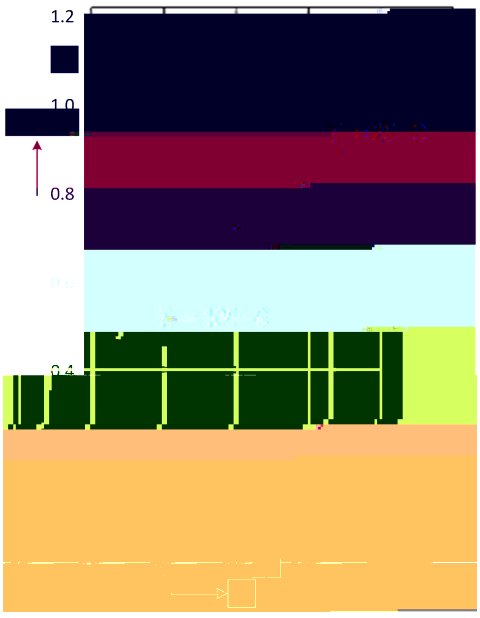

VI
< trr

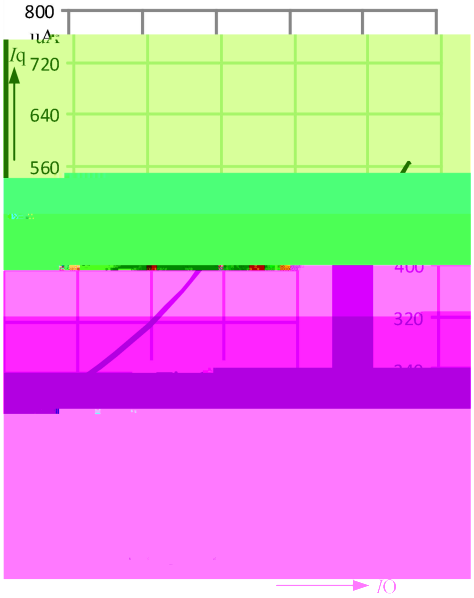

R
CI1
1000uF
CI2
100nF
I
1
5
Q
IQ
CQ
22uF
Rext
5K Ω
RQ
VQ
GND
IRQ
VRQ

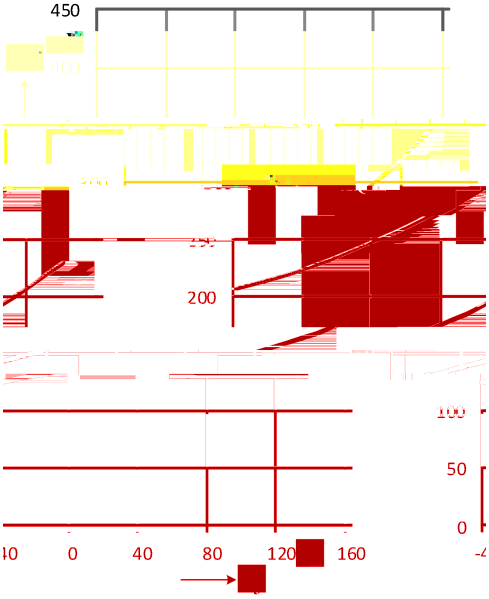

5,20
V
5,10
5,00
4,90
Vi=13.5V

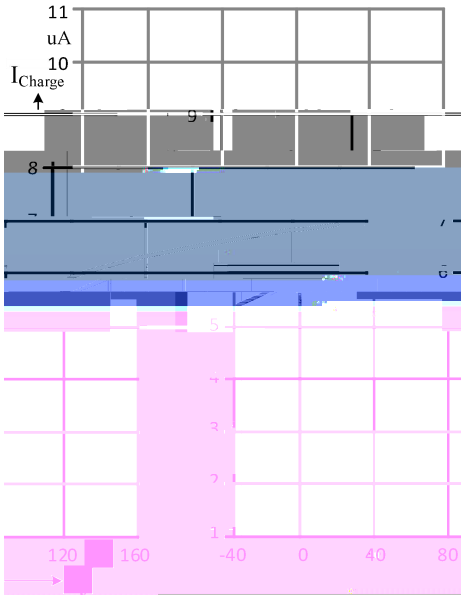

12
V
8
6
4
2
0
0
2
4
6
8
10

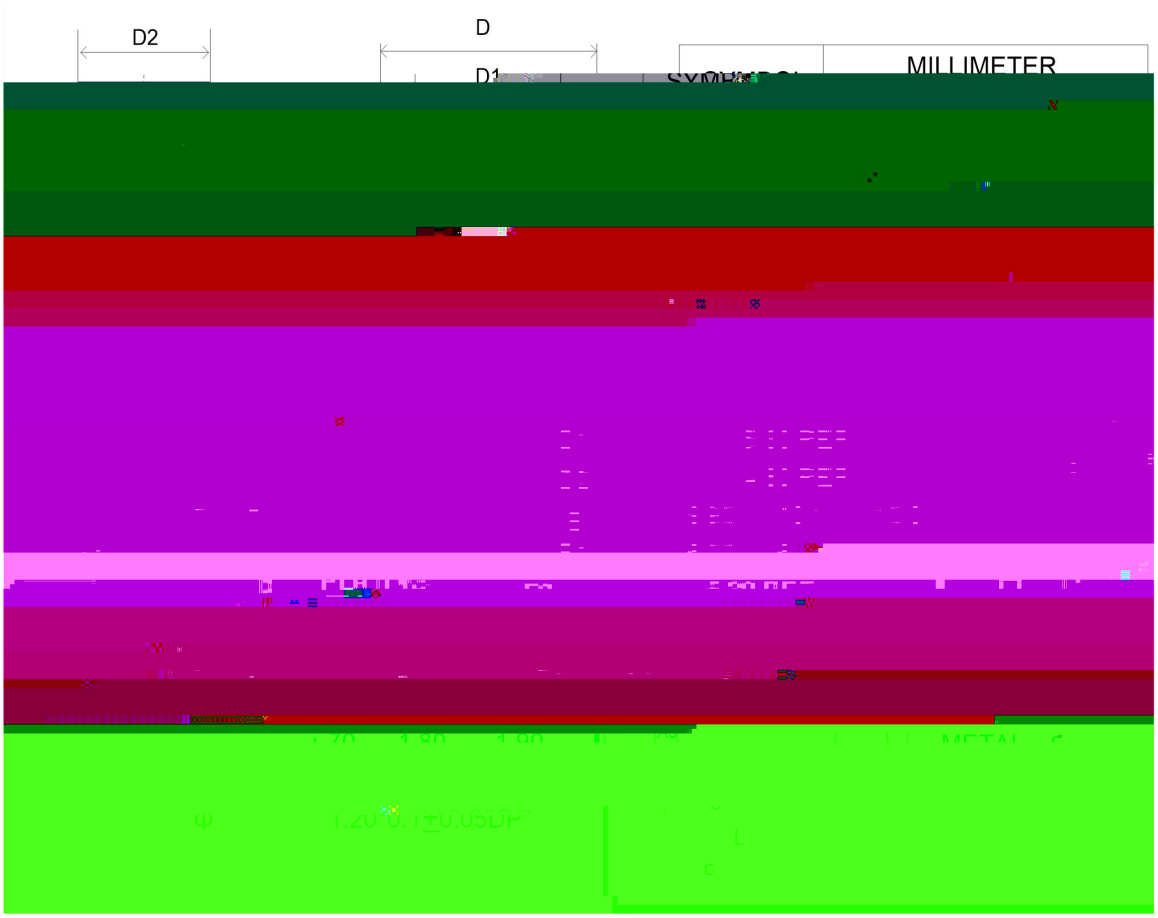

500
400
300
200
100
0


1.2
1.0
0.8
0.4


800
720
640
560
320


450
200
100
50
0
40
80
120
160


11
uA
10
ICharge
9
8
120
160
-40
0
40
80




9-1 TO252-5

| | | |
|---|---|---|
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