

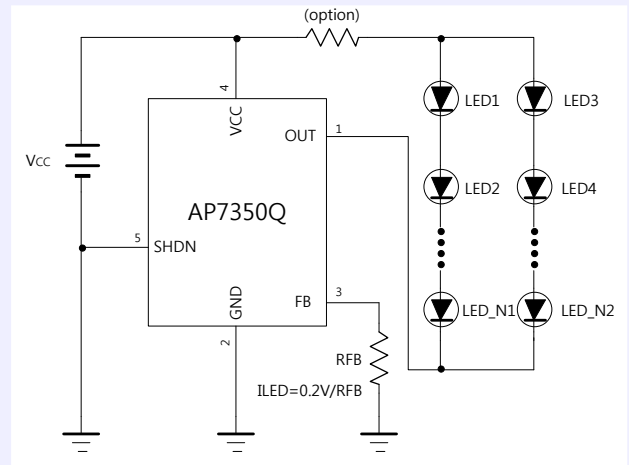
### General Description

- ◇ The AP7350Q is an integrated adjustable constant-current source, driving loads up to 1A.
- ◇ The integrated  $\overline{\text{SHDN}}$  pin can control PWM. It also can be used as an enable input.

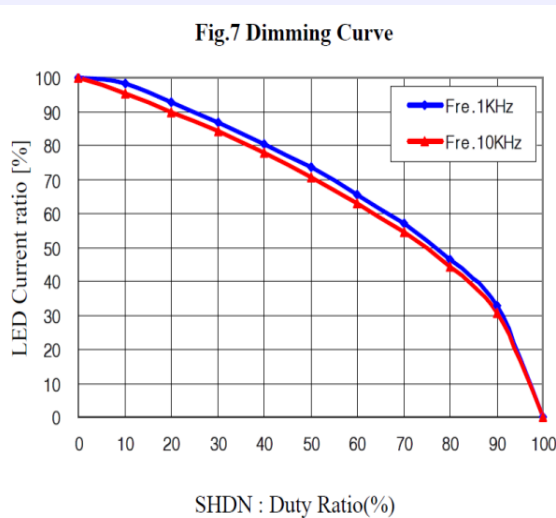
### Features & Application

- ✓ Operating Voltage Range : 3~25V.
- ✓ Output Sink Current : Max 1A.
- ✓ Voltage Ref. Tolerance :  $200\text{mV} \pm 4\%$ .
- ✓ Enable PWM Dimming Control
- ✓ Constant Current Source Application
- ✓ Thermal Shutdown Protection Function
- ✓ Series/Parallel LED Connection
- ✓ Very simple circuit without Inductor
- ✓ CC/IP/Smart Camera LED drive , Lightning
- ✓ Flicker-Free IC
- ✓ Display LED Back Light IC

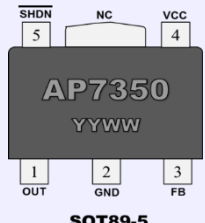
### 7350Q Application Circuit



### Dimming Information



### Package Information

| Outline        |  |                       |  |
|----------------|---------------------------------------------------------------------------------------|-----------------------|--|
|                | Dimension [mm]                                                                        |                       |  |
| Dimension [mm] |                                                                                       | 4.5 × 4.35 × 1.5      |  |
|                | Symbol                                                                                | Description           |  |
| 1              | OUT                                                                                   | Open Collector Output |  |
| 2              | GND                                                                                   | Ground                |  |
| 3              | FB                                                                                    | Feedback/0.2V         |  |
| 4              | VCC                                                                                   | Power Supply          |  |
| 5              | $\overline{\text{SHDN}}$                                                              | Disable On/Off        |  |

### Ordering Information

| Part No | Package  | Packing     | Finish | Halogen | REEL unit | Remark |
|---------|----------|-------------|--------|---------|-----------|--------|
| AP7350Q | SOT-89-5 | Tape & Reel | Sn     | Free    | 1,000     | 10Kp   |

### Product Line-up

|               | Part No      | Max. $V_{CC}$ | Max. $I_{OUT}$ | $V_{DROP}$ | Package                     | Min. Unit               | MOQ                |
|---------------|--------------|---------------|----------------|------------|-----------------------------|-------------------------|--------------------|
| LED Driver IC | ISP7000      | 25V           | 150mA          | -          | SOT-25                      | 3,000                   | 30Kp               |
|               | AP7350Q      | 25V           | 1000mA         | -          | SOT89-5                     | 1,000                   | 10Kp               |
| Regulator     | LM78LXX      | 40V           | 150mA          | 1.7V       | TO-92                       | 2,000                   | 20Kp               |
|               | LM78MXX      | 40V           | 500mA          | 2.0V       | TO-220F<br>TO-252           | 1,000<br>2,500          | 10Kp<br>25Kp       |
|               | LM78XX       | 40V           | 1000mA         | 2.0V       | TO-220<br>TO-220F<br>TO-252 | 1,000<br>1,000<br>2,500 | 5Kp<br>5Kp<br>25Kp |
|               | LM78LXX      | -40V          | 150mA          | 1.0V       | TO-92                       | 2,000                   | 20Kp               |
|               | LM78MXX      | -40V          | 500mA          | 1.1V       | TO-220F<br>TO-252           | 1,000<br>2,500          | 10Kp<br>25Kp       |
|               | LM78XX       | -40V          | 1000mA         | 1.3V       | TO-220<br>TO-220F<br>TO-252 | 1,000<br>1,000<br>2,500 | 5Kp<br>5Kp<br>25Kp |
| LDO           | LM1117R-XX   | 16V           | 1000mA         | 1.25<br>V  | TO-252                      | 2,500                   | 25Kp               |
|               | LM1117S-XX   | 16V           | 1000mA         | 1.25<br>V  | SOT-223                     | 2,500                   | 25Kp               |
|               | ISP78RXXFTL  | 35V           | 1000mA         | 0.5V       | TO-220F4L                   | 1,000                   | 5Kp                |
|               | ISP278RXXFTL | 35V           | 2000mA         | 0.5V       | TO-220F4L                   | 1,000                   | 5Kp                |