



General Description

DD312 is a single-channel constant current LED driver designed to drive high power LED. It can provide a maximum sink current of 1A, adjustable by an external resistor. The output enable allows dimming control or switching power applications.

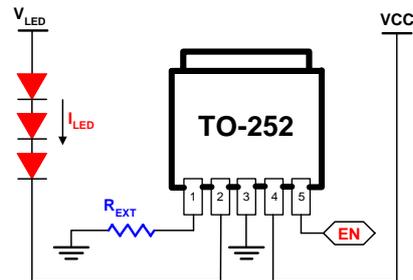
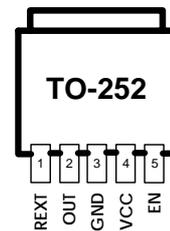
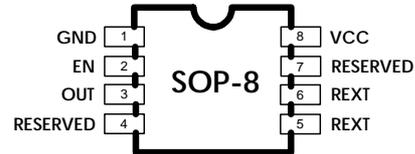
Features

- Maximum constant current output:
1A determined by external resistor
- Maximum sinking output voltage: 17V
- Minimum output voltage: 1V (I_{out} = 1A)
- Output enable terminal: 1MHz (max.)
- Supply voltage range: 5V ~ 18V
- Over current protection
- Thermal shutdown

Application

- Power LED lighting applications
- LED backlighting applications

Pin Connection



$$I_{LED} (A) \approx 0.5 (V) / R_{EXT} (ohm)$$

$$P (W) \approx (V_{out} - 0.5V) \times I_{LED} (A)$$

$$V_{EN(enable)} = 5V \sim 18V$$

$$V_{EN(disable)} = 0V$$

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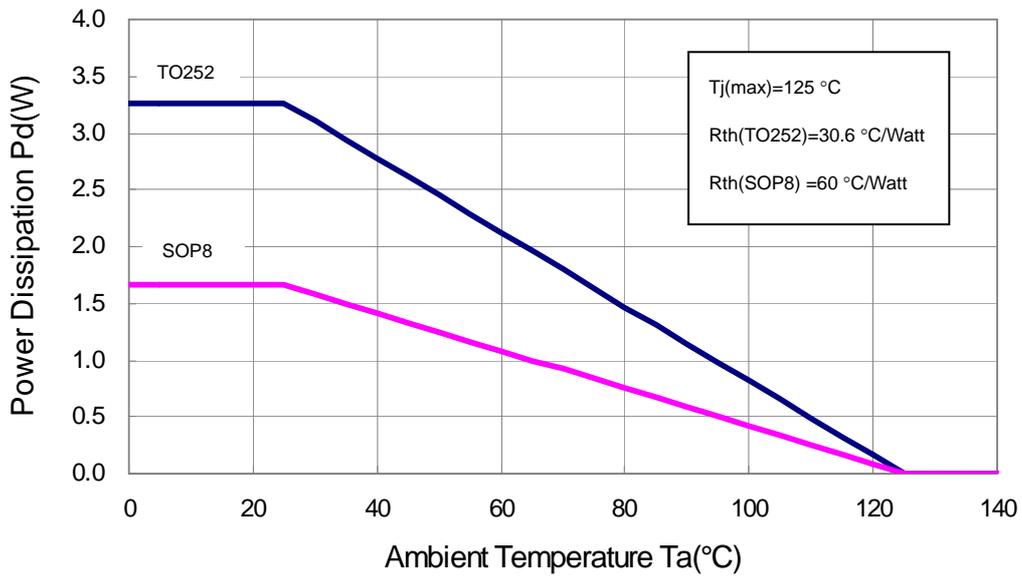
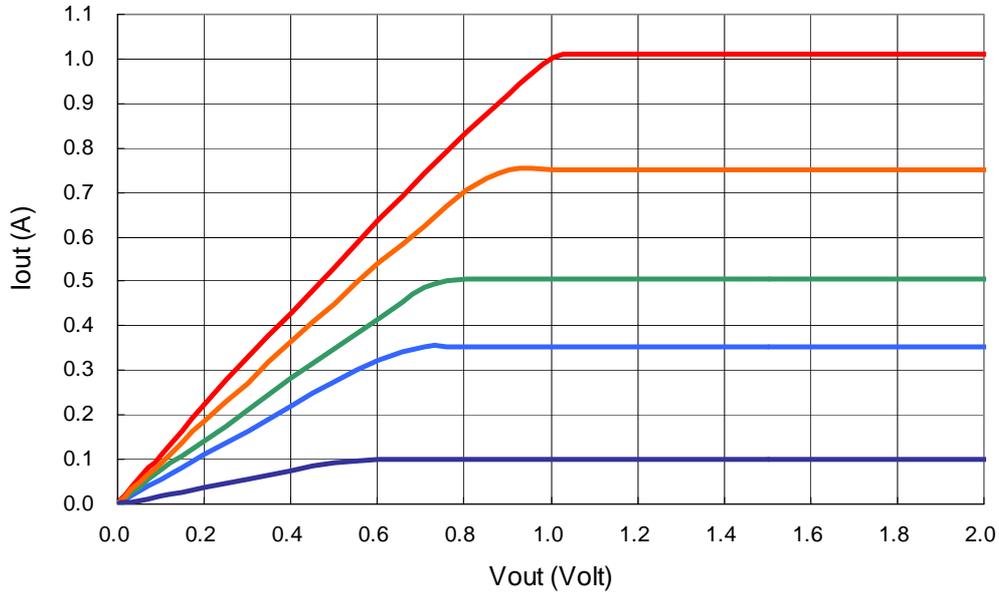
Preliminary



SILICON TOUCH TECHNOLOGY INC.

DD312 Product Brief
High Constant Current LED Drivers

Output Current as a Function of Output Voltage



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