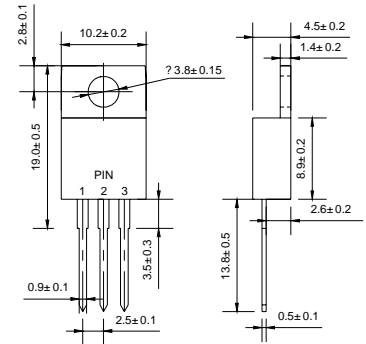


FEATURES

- Maximum output current IOM: 1.5 A
- Output voltage VO: 5V
- Continuous total dissipation PD: 1.5 W (T a = 25 °C)

MECHANICAL DATA

- Case: TO-220 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



PIN 1: IN
PIN 2: GND
PIN 3: OUT

Dimensions in millimeters

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

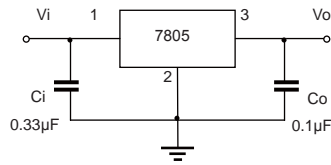
| Parameter | Symbol | Value | Unit |
|---|-----------------|----------|------|
| Input Voltage | V_i | 35 | V |
| Thermal Resistance from Junction to Air | $R_{\theta JA}$ | 66.7 | °C/W |
| Operating Junction Temperature Range | T_{OPR} | -25~+125 | °C |
| Storage Temperature Range | T_{STG} | -65~+150 | °C |

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE

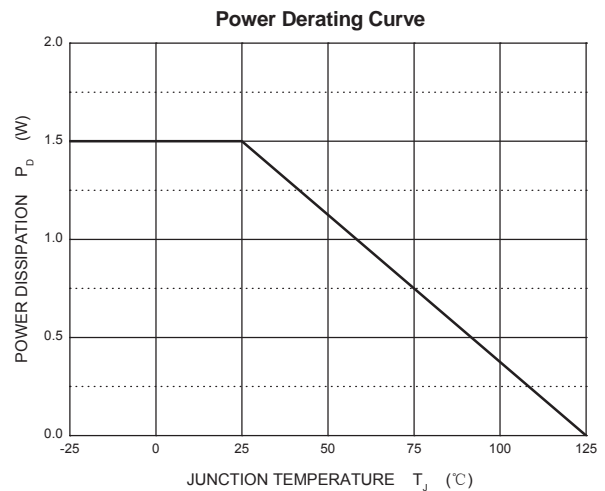
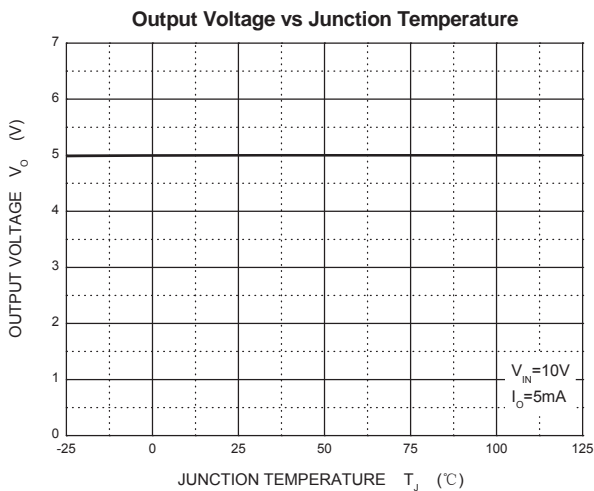
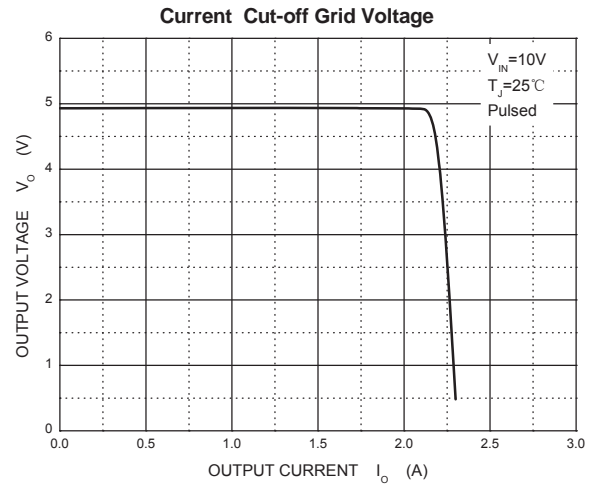
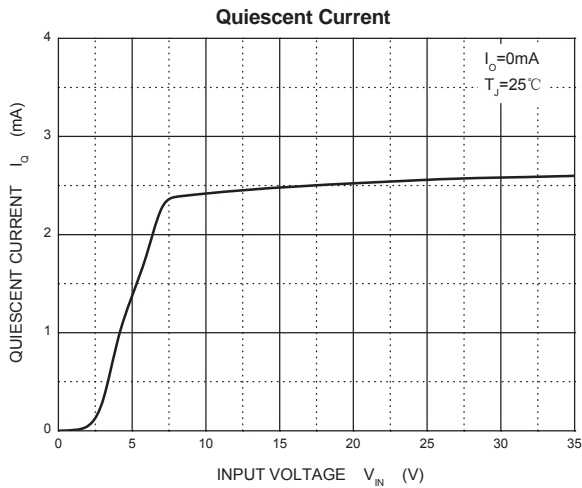
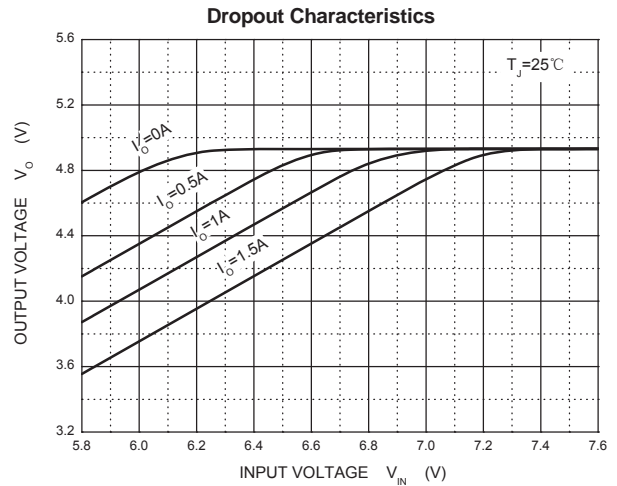
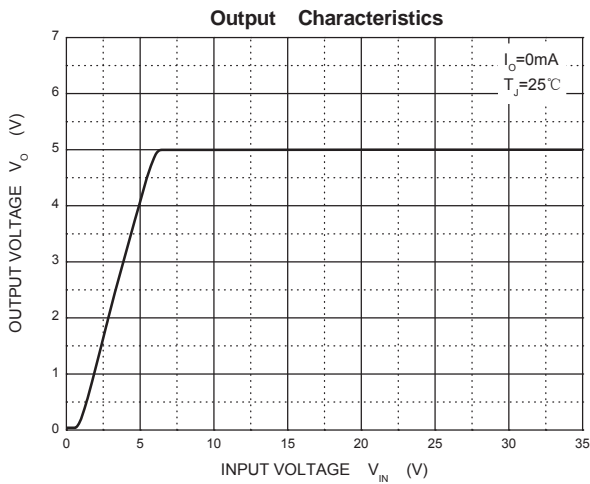
($V_i=10V, I_o=500mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|--------------------------|-------------------------|------------------------------------|-----------|------|------|-------------|
| Output voltage | V_o | 25°C | 4.8 | 5.0 | 5.2 | V |
| | | $7V \leq V_i \leq 20V, I_o=5mA-1A$ | -25-125°C | 4.75 | 5.00 | 5.25 |
| Load Regulation | ΔV_o | $I_o=5mA-1.5A$ | 25°C | 9 | 100 | mV |
| | | $I_o=250mA-750mA$ | 25°C | 4 | 50 | mV |
| Line regulation | ΔV_o | $7V \leq V_i \leq 25V$ | 25°C | 4 | 100 | mV |
| | | $8V \leq V_i \leq 12V$ | 25°C | 1.6 | 50 | mV |
| Quiescent Current | I_q | 25°C | | 5 | 8 | mA |
| Quiescent Current Change | ΔI_q | $7V \leq V_i \leq 25V$ | -25-125°C | 0.3 | 1.3 | mA |
| | | $5mA \leq I_o \leq 1A$ | -25-125°C | 0.03 | 0.5 | mA |
| Output Noise Voltage | V_N | $10Hz \leq f \leq 100KHz$ | 25°C | 42 | | uV |
| Output voltage drift | $\Delta V_o / \Delta T$ | $I_o=5mA$ | -25-125°C | -1.1 | | mV/°C |
| Ripple Rejection | RR | $8V \leq V_i \leq 18V, f=120Hz$ | -25-125°C | 62 | 73 | dB |
| Dropout Voltage | V_d | $I_o=1A$ | 25°C | 2 | | $\mu V/V_o$ |
| Output resistance | R_o | $f=1KHz$ | 25°C | 10 | | mΩ |
| Short Circuit Current | I_{sc} | 25°C | | 230 | | mA |
| Peak Current | I_{pk} | 25°C | | 2.2 | | A |

* Pulse test.

TYPICAL APPLICATION


Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.



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