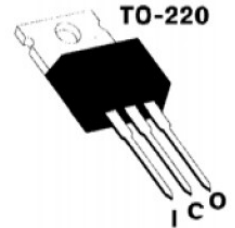
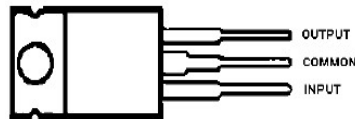


Description

This series of fixed-voltage monolithic integrated-circuit voltage regulators is designed for a wide range of applications. These applications include on-card regulation for elimination of noise and distribution associated with single-point regulation. In addition, they can be used with power-pass elements to make high-current voltage regulators. Each The internal of these regulators can deliver up to 1.5 A of output current.

Features

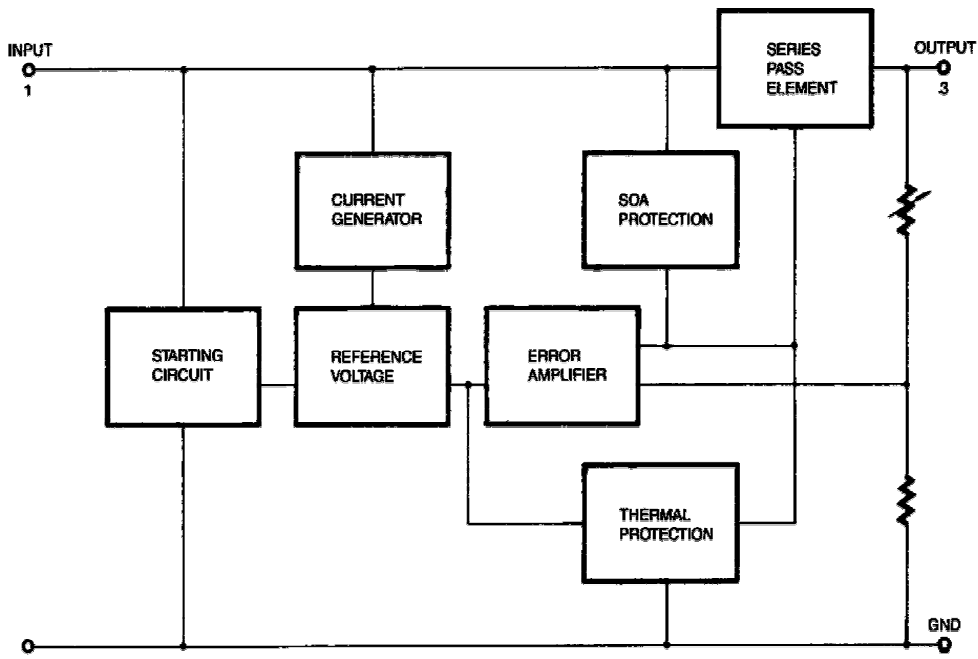
- Output Current in Excess of 1.5A (PD¹15W)
- No External Components Required
- Internal Short Circuit Current Limiting
- Internal Thermal Overload Protection
- Output Transistor Safe-Area Compensation
- Output Voltage Offered in 4% Tolerance



Package TO-220
(top view)

Package

Internal Block Diagram



Absolute Maximum Ratings

Maximum Input Voltage: 36V

Operation Junction Temperature Range: -40°C to 125°

Electrical Characteristics

($V_{in}=10V$, $I_o=0.5A$, $T_j=25^\circ$, unless otherwise noted.)

Characteristic	Symbol	Min	Max	Unit
Output Voltage	V_o	-4.8	-5.2	Vdc
Line Regulation -7.0 Vdc $\leq V_i \leq$ -25 Vdc $I_o=0.1A$ -7.0 Vdc $\leq V_i \leq$ -25 Vdc $I_o=0.5A$ -8.0 Vdc $\leq V_i \leq$ -12 Vdc $I_o=0.1A$ -8.0 Vdc $\leq V_i \leq$ -12 Vdc $I_o=0.5A$	Reg_{line}	-	50 100 25 50	mV
Load Regulation 5.0 mA $\leq I_o \leq$ 1.5 A 250 mA $\leq I_o \leq$ 750 mA	Reg_{load}	-	100 50	mV
Quiescent Current	I_B	-	8.0	mA
Quiescent Current Change -7.0 Vdc $\leq V_i \leq$ -25 Vdc 5.0 mA $\leq I_o \leq$ 1.0A	ΔI_B	-	1.3 0.5	mA

Typical Applications Circuit

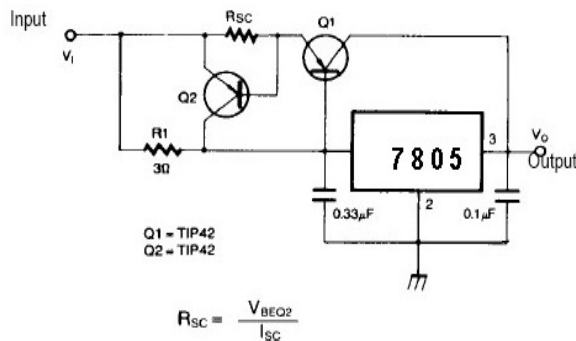
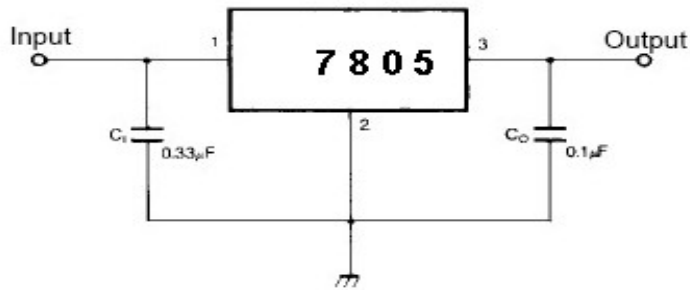
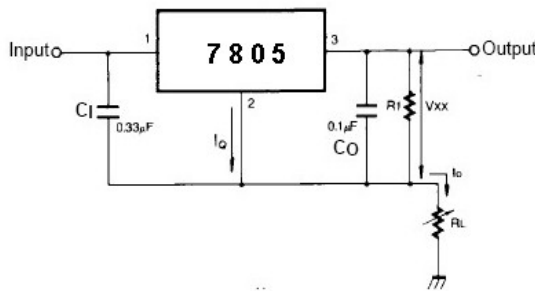


Figure 1. High Output Current with Short Circuit Protection


Figure 2. DC Parameters


$$I_O = \frac{V_{XX}}{R_1} + I_Q$$

Figure 3. Constant Current Regulator

Ordering Information

ORDERING NUMBER	PACKAGE	MARKING
7805	TO - 220	ESTEK

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