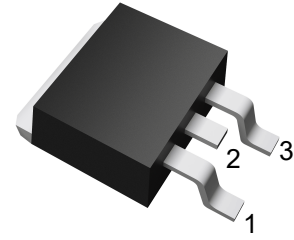




PJ7805TC

3-Terminal Voltage Regulator

TO-263

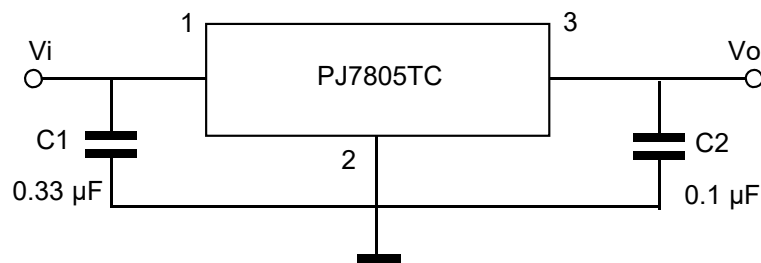


1. IN 2. GND 3. OUT

Maximum Ratings

Ratings at $T_A = 25^\circ\text{C}$ ambient temperature unless otherwise specified.

Parameter	Symbols	Value	Units
Input Voltage	V_I	35	V
Output Current	I_O	1.5	A
Power Dissipation	P_D	1.5	W
Operating Junction Temperature Range	T_{OPR}	0~125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~150	$^\circ\text{C}$





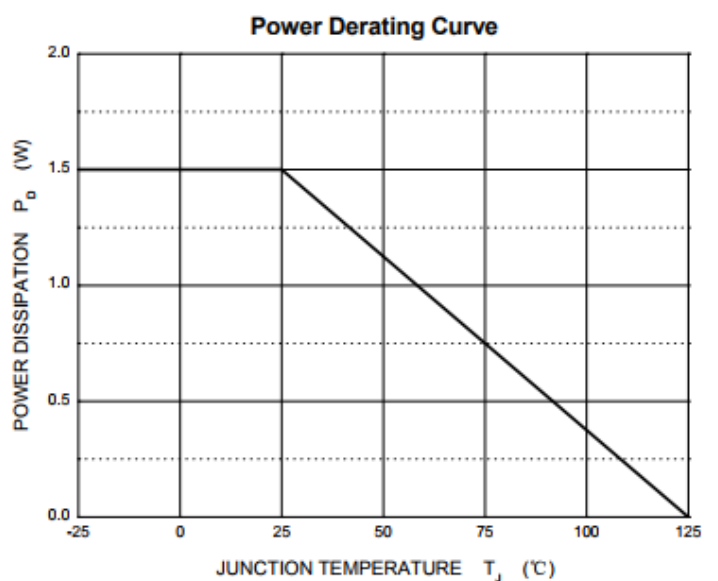
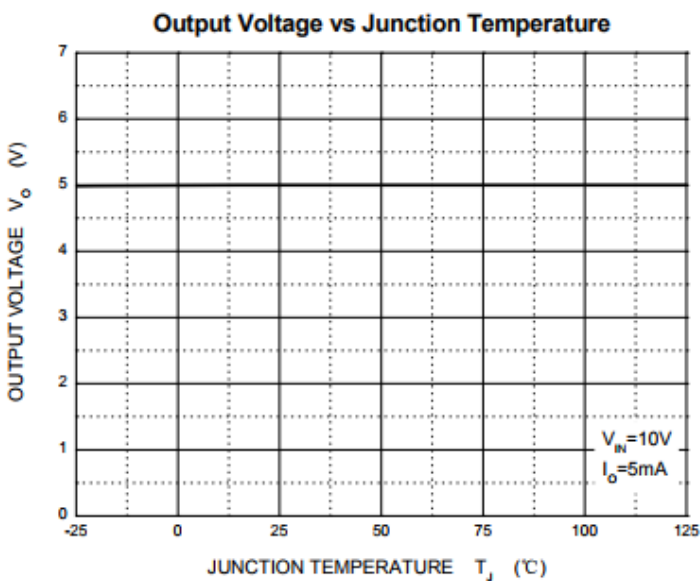
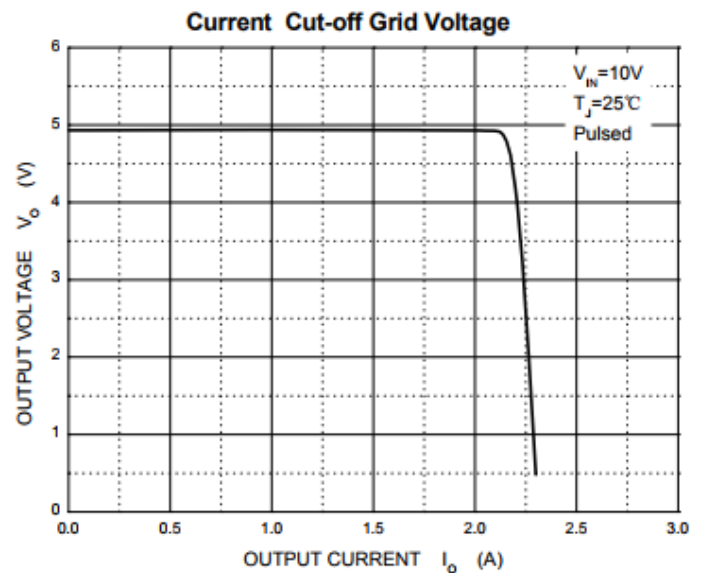
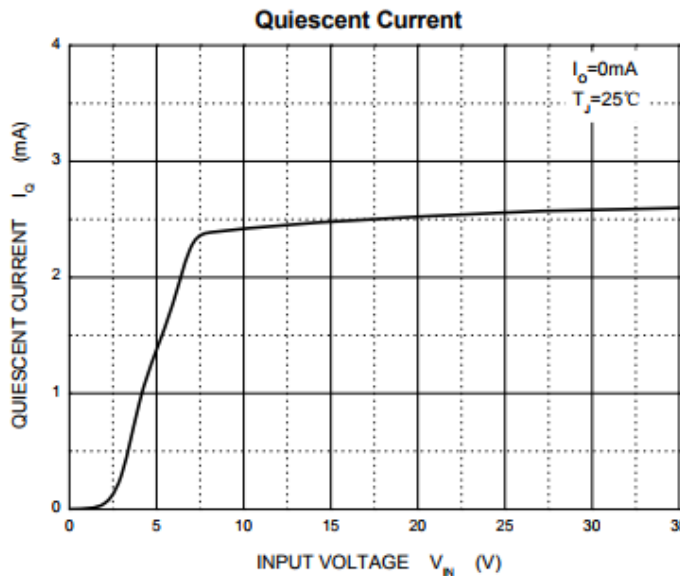
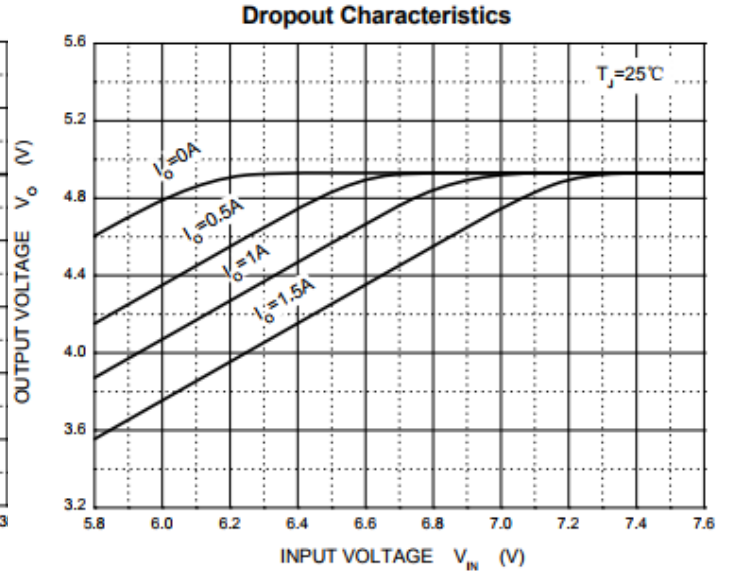
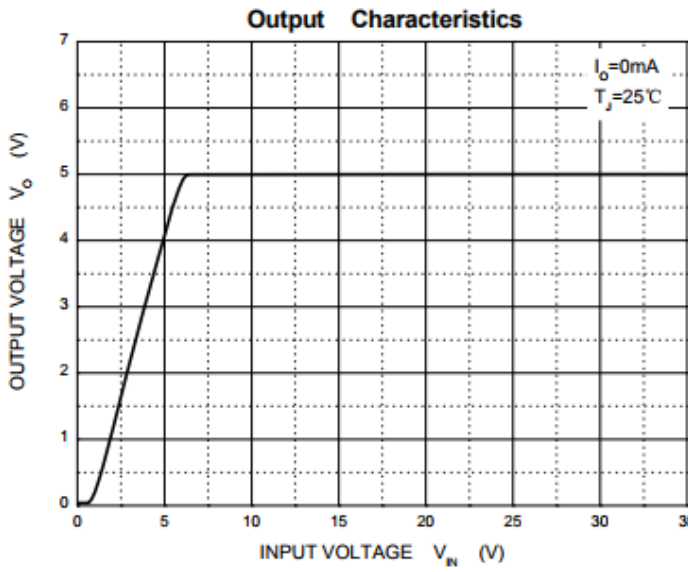
Electrical Characteristics

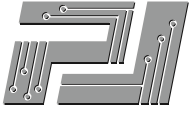
Ratings at $T_J = 25^\circ\text{C}$, $V_I = 10\text{V}$, $I_O = 40\text{mA}$, $C_i = 0.33\mu\text{F}$, $C_o = 0.1\mu\text{F}$, unless otherwise specified.

Parameter	Symbols	Test Conditions	Min	Typ	Max	Unit
Output Voltage	V_O	$T_J = 25^\circ\text{C}$	4.80	5	5.20	V
		$5\text{mA} \leq I_O \leq 1\text{A}$ $V_I = 7\text{V to } 20\text{V}$	4.75	5	5.25	
Line Regulation	ΔV_O	$V_O = 7\text{ V to } 25\text{ V}$			100	mV
		$V_I = 8\text{ V to } 12\text{ V}$			50	mV
Load Regulation	ΔV_O	$I_O = 5\text{ mA to } 1.5\text{ A}$			100	mV
		$I_O = 250\text{ mA to } 750\text{ mA}$			50	mV
Ripple Rejection	RR	$V_I = 8\sim 18\text{ V}$, $f = 120\text{Hz}$	62			dB
Output Noise Voltage	V_N	$f = 10\text{Hz} \sim 100\text{KHz}$, $T_J = 25^\circ\text{C}$		42		μV
Dropout Voltage	V_D	$I_O = 1\text{A}$, $T_J = 25^\circ\text{C}$		2		V
Quiescent Current	I_Q	$T_J = 25^\circ\text{C}$			8	mA
Quiescent Current Change	ΔI_Q	$I_O = 5\text{ mA to } 1\text{ A}$			0.5	mA
		$V_I = 7\text{ V to } 25\text{ V}$			1.3	



Typical Characteristic Curves





PJ7805TC

3-Terminal Voltage Regulator

Package Outline

TO-263
Dimensions in mm

