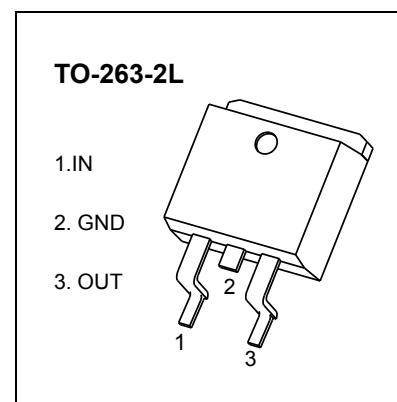


CJ7805 Three-terminal positive voltage regulator**FEATURES**

- Maximum output current I_{OM} : 1.5 A
- Output voltage V_O : 5V
- Continuous total dissipation P_D : 1.5 W ($T_a = 25^\circ C$)

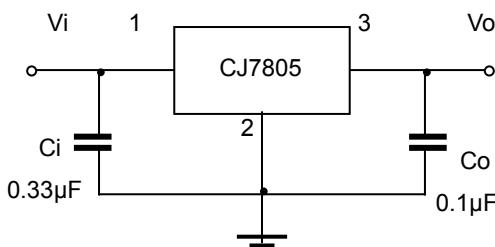
**ABSOLUTE MAXIMUM RATINGS** (Operating temperature range applies unless otherwise specified)

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)

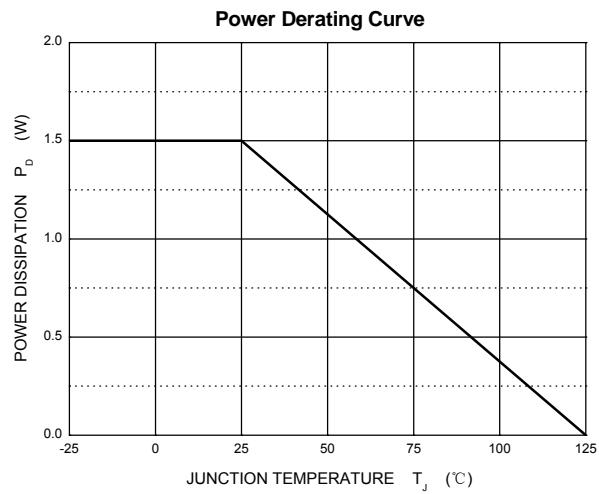
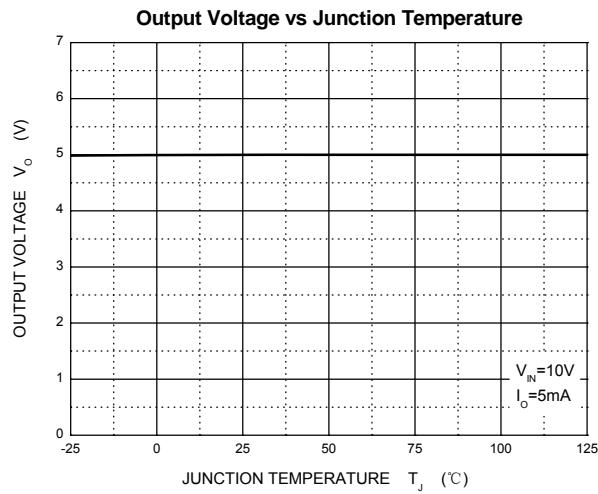
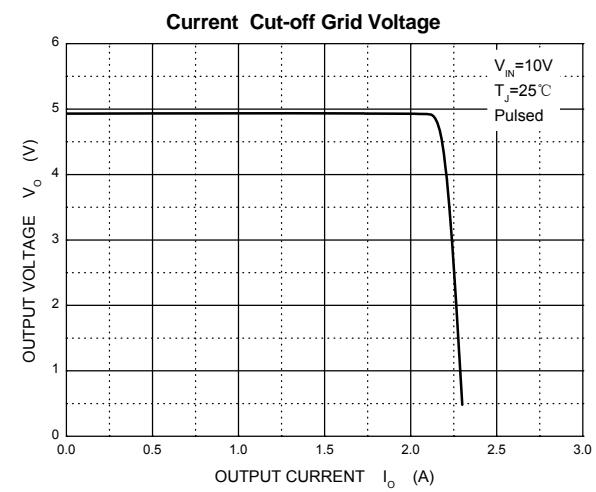
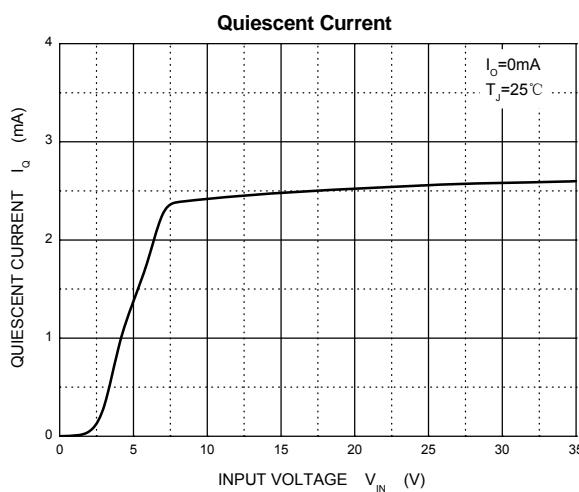
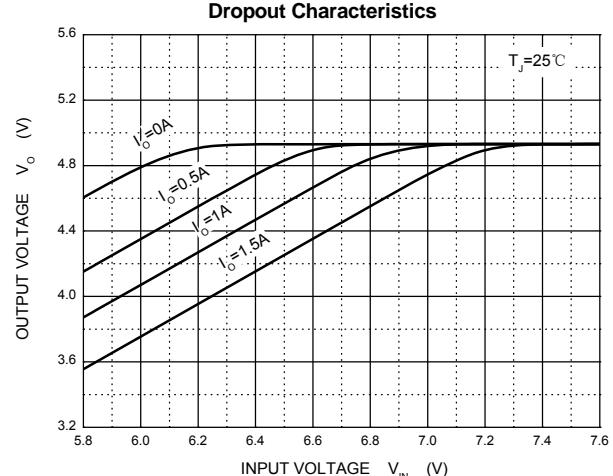
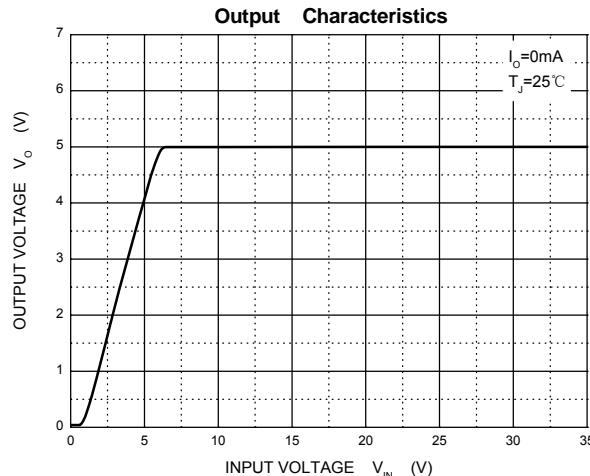
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output voltage	V_o	25°C	4.8	5.0	5.2	V
		7V≤ V_i ≤20V, $I_o=5mA-1A$	-25-125°C	4.75	5.00	5.25
Load Regulation	ΔV_o	$I_o=5mA-1.5A$	25°C		9	mV
		$I_o=250mA-750mA$	25°C		4	mV
Line regulation	ΔV_o	7V≤ V_i ≤25V	25°C		4	mV
		8V≤ V_i ≤12V	25°C		1.6	mV
Quiescent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

* Pulse test.

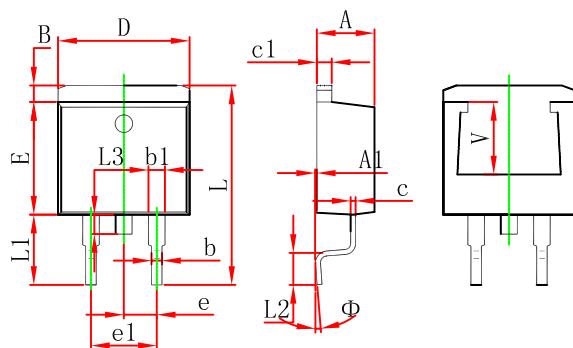
TYPICAL APPLICATION

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

Typical Characteristics

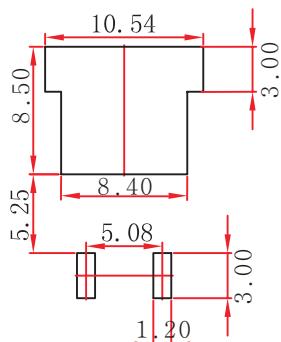


TO-263-2L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.470	4.670	0.176	0.184
A1	0.000	0.150	0.000	0.006
B	1.120	1.420	0.044	0.056
b	0.710	0.910	0.028	0.036
b1	1.170	1.370	0.046	0.054
c	0.310	0.530	0.012	0.021
c1	1.170	1.370	0.046	0.054
D	10.010	10.310	0.394	0.406
E	8.500	8.900	0.335	0.350
e	2.540 TYP.		0.100 TYP.	
e1	4.980	5.180	0.196	0.204
L	14.940	15.500	0.588	0.610
L1	4.950	5.450	0.195	0.215
L2	2.340	2.740	0.092	0.108
L3	1.300	1.700	0.051	0.067
Φ	0°		8°	
V	5.600 REF.		0.220REF.	

TO-263-2L Suggested Pad Layout

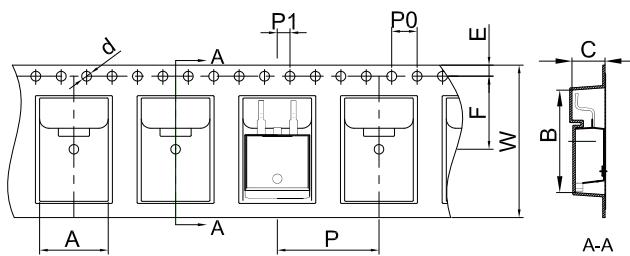


Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

TO-263-2L Tape and Reel

TO-263-2L Embossed Carrier Tape

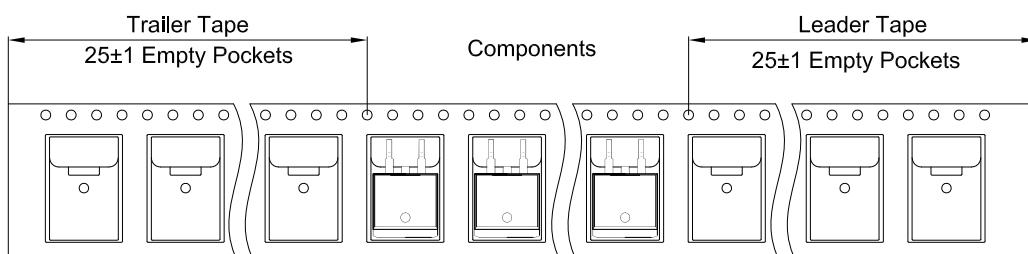


Packaging Description:

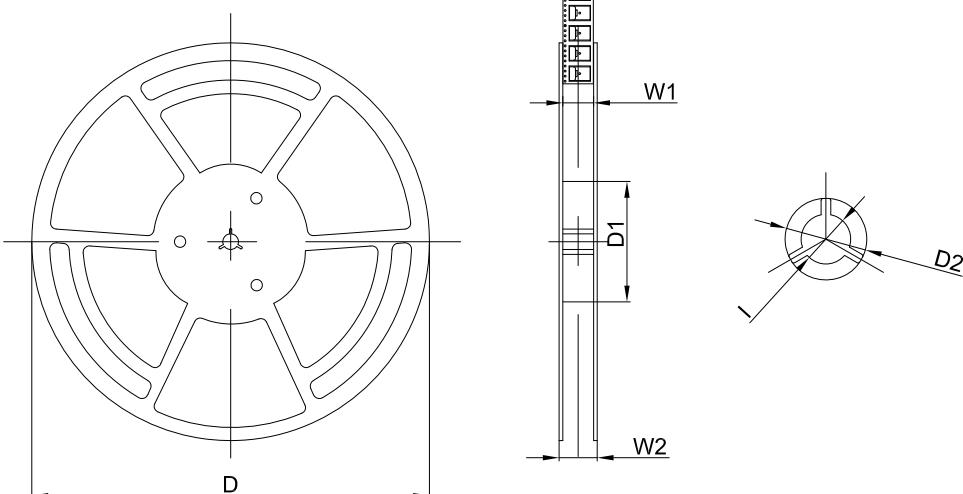
TO-263-2L parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 800 units per 13" or 33.0 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
TO-263-2L	10.80	16.13	5.21	Ø1.55	1.75	11.50	4.00	16.00	2.00	24.00

TO-263-2L Tape Leader and Trailer



TO-263-2L Reel



Dimensions are in millimeter					
Reel Option	D	D1	D2	W1	I
13"Dia	Ø330.00	100.00	Ø21.00	24.4	30.4

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
800 pcs	13 inch	800 pcs	340×336×36	8,000 pcs	400×353×365	