

DE7805 DE7805A

TECHNICAL SPECIFICATIONS OF 3-TERMINAL POSITIVE VOLTAGE REGULATOR

Description

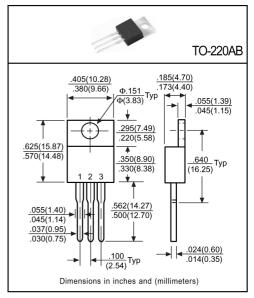
These regulators empoly internal current limiting and thermal shutdown, making them essentially indestructible. They can deliver over 1A output current with adequate heatsinking. They are intended as fixed voltage regulators in a wide range of applications including local, on-card regulation for elimination of noise and distribution problems associated with single-point regulation.

Pinning

- 1 = Input
- 2 = Ground
- 3 = Output

Absolute Maximum Ratings (TA=25°C)

Characteristic	Symbol	Rating	Unit
Input Voltage	Vı	35	٧
Total Power Dissipation	Po	Internal limit	W
Operating Temperature Range	Topr	0 to +125	°C
Maximum Junction Temperature	TJ	125	°C
Storage Temperature Range	Tstg	-55 to +150	°C
Lead Temperature(Soldering 10 Sec.)	TL	230	°C



Electrical Characteristics

(Vin=10V, lout=500mA, 0°C≤TJ≤125°C, unless otherwise specified)

			•	,				
Characteristic		Symbol	Min	Тур	Max	Unit	Test Conditions	
Output Voltage	DE7805A	Vo	4.85	5.00	5.15	V	TJ=25°C	
	DE7805		4.80	5.00	5.20			
	DE7805A		4.85	5.00	5.15		Po≦15W, 5mA≦lo≦1A	
	DE7805		4.75	5.00	5.25			
Line Regulation	DE7805A	Reg _{line}	-	4.0	50	mV	TJ=25°C, 7V≦Vin≦25V	
	DE7805		-	4.0	100			
	DE7805A		-	1.6	25		T-05 ⁰ 0 0\(\sigma\)\(\sigma\)	
	DE7805	1	-	1.6	50		TJ=25°C, 8V≦Vin≦25V	
Load Regulation		Reg _{load}	-	-	100	mV	TJ=25°C, 5mA≦Io≦1.5A	
			-	-	50		TJ=25°C, 250mA≦Io≦750mA	
Input Bias Current		Iв	-	5.5	8.0	mA	TJ=25°C, Io≦1A	
Input Bias Current Change		ΔІв	-	-	0.5	mA	5mA≦lo≦1A	
			-	-	1.3		7V≦Vin≦25V	
Output Noise Voltage	DE7805A	Vn	-	40	200	μV	Ta=25°C, 10Hz≦f≦100KHz	
	DE7805		-	100	300			
Ripple Rejection	DE7805A	RR	-	68	-	dB	8V≦Vin≦18V, f=120Hz	
	DE7805		62	73	-			
Dropout Voltage	DE7805A	VD	-	2.0	-	V	T _J =25°C, Io=1A	
	DE7805		-	2.5	-		1J=25 C, 10=1A	
Short Circuit Current		Isc	-	1.5	-	Α	TJ=25°C	
Peak Output Current		lmax	1.7	-	-	Α	TJ=25°C	
Average Tc of Vout		ΔVο / ΔΤ	_	-0.8	-	mV / °C	0°C≤TJ≤+125°C. lo=5mA	









