



Micro Commercial Components

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MC7809FCT

Features

- Output current in excess of 1.5 Ampere
- Input Voltage: 35V
- Output Voltage: 9V
- Total Dissipation: 15W
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings @ T_J=25°C, Unless Otherwise Noted

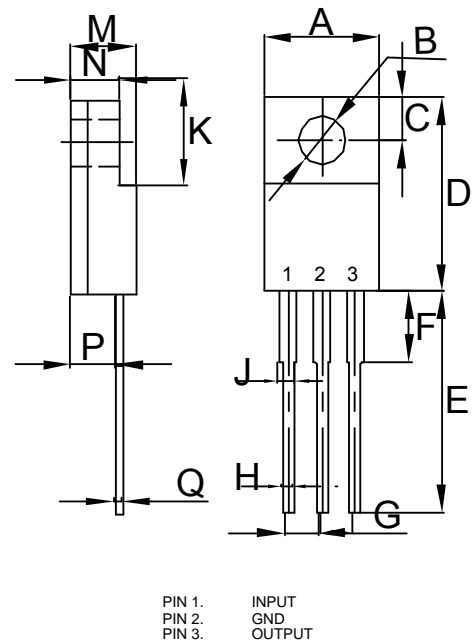
Parameter	Symbol	Value	Unit
Input Voltage	V ₁	35	V
Total Dissipation	P _D	15	W
Operating Junction Temperature	T _{OPR}	0---+150	°C
Storage Temperature Range	T _{STG}	-65---+150	°C

Electrical Characteristics (V_i=10V, I_o=500mA, 0°C<T_j<125°C, C_i=0.33uF, C_o=0.1uF, Unless Otherwise Specified)

Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	V _o	8.65V	9.0V	9.35V	T _J =25°C
		8.55V	9V	9.45V	11.5V ≤ V ₁ ≤ 24V, 5mA ≤ I _o ≤ 1.0A, P _o ≤ 15W
Load Regulation	ΔV _o		12mV	180mV	5mA ≤ I _o ≤ 1.5A, T _J =25°C,
			4.0mV	90mV	250mA ≤ I _o ≤ 750mA, T _J =25°C
Line regulation	ΔV _o		7.0mV	180mV	11.5V ≤ V ₁ ≤ 27V, T _J =25°C
			2.0mV	90mV	13V ≤ V ₁ ≤ 19V, T _J =25°C
Quiescent Current	I _q		4.3mA	8.0mA	T _J =25°C
Quiescent Current Change	ΔI _q			1mA 0.5mA	11.5V ≤ V ₁ ≤ 27V 5mA ≤ I _o ≤ 1.0A
Output Noise Voltage	V _N		60μV		f:10Hz~100kHz
Ripple Rejection	RR	55dB	70dB		12V ≤ V ₁ ≤ 22V f=120Hz, T _J =25°C
Dropout Voltage	V _d		2.0V		I _o =1.0A, T _J =25°C
Output Short Circuit Current	I _{os}		400mA		T _J =25°C
Peak Output Current	I _{opeak}		2.2A		T _J =25°C

Three-Terminal Positive Voltage Regulators

TO-220F



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.388	.407	9.85	10.35	
B	.128	.145	3.25	3.55	
C	.101	.111	2.57	2.83	
D	.570	.610	14.9	15.5	
E	.496	.520	12.6	13.2	
F	.148	.167	3.75	4.25	
G	.096	.101	2.44	2.57	
H	.019	.029	.47	.73	
J	.046	.056	1.17	1.43	
K	.266	.285	6.75	7.25	
M	.165	.190	4.25	4.75	
N	.110	.130	2.81	3.31	
P	.097	.107	2.72	2.48	
Q	.019	.029	.47	.73	



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