

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

MC7805FCT

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) Output current in excess of 1.5 Ampere
- No external components required
- Internal thermal overload protection
- Internal short-circuit current limiting
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

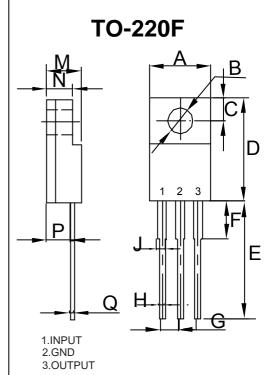
Maximum Ratings @ T₁=25°C Unless Otherwise Noted

<u>maximam natingo & 1x 20 0; omoto otnoi moto notoa </u>					
Parameter	Symbol	Value	Unit		
Input Voltage	Vi	35	V		
Power Dissipation	P_D	15	W		
Operating Junction Temperature	T_{OPR}	0+150	°C		
Storage Temperature Range	T _{STG}	-55+150	°C		

Electrical Characteristics (Vi=10V, Io=500mA, 0°C<Tj<125°C, Ci=0.33uF, Co=0.1uF, Unless Otherwise Specified)

Parameter	Sym	Min	Тур	Max	Test conditions
		4.8V	5.0V	5.2V	T _j =25°C
Output Voltage	V ₀	4.75V		5.25V	$7V \le V_1 \le 20V$, $5mA \le I_0 \le 1.0A$, $P_D=15W$, $Tj=0\sim125^{\circ}C$
Load Regulation	$\triangle V_o$		1.3mV	100mV	5mA≦I _o ≦1.5A, T _i =25°C,
			0.9mV	50mV	250mA≦I _O ≦750mA, T _i =25°C
Line regulation	$\triangle V_o$			100mV 50mV	$7V \le V_1 \le 25V, T_j=25^{\circ}C$ $8V \le V_1 \le 12V, T_j=25^{\circ}C$
Quiescent Current	Iq		3.5mA	8.0mA	T _j =25°C
Quiescent Current Change	$\triangle I_q$		0.3mA 0.03mA	1.3mA 0.5mA	$7V \leq V_{I} \leq 25V$ $5mA \leq I_{o} \leq 1.0A$
Output Noise Voltage	V _N		42µV		10Hz≦f≦100KHz
Ripple Rejection	RR	62dB	73dB		8V≦V _i ≦18V f=120Hz, T _i =0~125°C
Dropout Voltage	V_{d}		2.0V		I _O =1.0A, T _j =25°C
Output Resistance	Ro		10mohm		f=1.0KHz
Short Circuit Current	I _{sc}		230mA		T _j =25°C
Peak Current	I _{pk}		2.2A		T _j =25°C

Three-Terminal Positive Voltage Regulators



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	.392	.408	9.96	10.36	
В	.138		3.50		Ф
С	.106		2.70		
D	.583	.598	14.80	15.20	
Е	.520		13.20		
F	.142	.158	3.60	4.00	
G	.100		2.54		
Ι	.020	.030	0.50	0.75	
J	.043	.069	1.10	1.75	
М	.169	.185	4.30	4.70	
Ν	.110	.126	2.80	3.20	
Р	.098	.114	2.50	2.90	
Q	.020	.030	0.50	0.75	

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.



Micro Commercial Components

Ordering Information:

Device	Packing
Part Number-BP	Bulk; 5Kpcs/Box

Note: Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.