



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933

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

MC78M08ACDT

Features

- Output current in excess of 0.5 Ampere
- Internal thermal overload protection
- Internal short-circuit current limiting
- High power dissipation capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Three-Terminal Positive Voltage Regulators

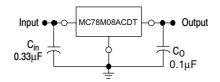
Maximum Katings @ IA=25°C, Uniess Utnerwise Noted				
Parameter	Symbol	Value	Unit	
Input Voltage	Vi	35	V	
Operating Junction Temperature Range	T _{OPR}	0+125	$^{\circ}$	
Storage Temperature Range	T _{STG}	-65+150	$^{\circ}$	

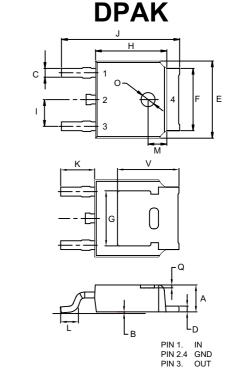
Electrical Characteristics (Vi=14V, Io=350mA, 0° <Tj<125 $^{\circ}$ C,

Ci=0.33uf, Co=0.1uf, Unless Otherwise Specified)

Parameter Sym Min Typ Max

Parameter	Sym	Min	Тур	Max	Test conditions
		7.84V	8.0V	8.16V	T _j =25℃
Output Voltage	V ₀	7.74V	8.0V	8.26V	$ \begin{array}{l} 10.5 \text{V} \leq \text{V}_i \leq 23 \text{V}, \\ 5 \text{mA} \leq \text{I}_0 \leq 350 \text{mA}, \\ \text{P}_D = 15 \text{W} \end{array} $
Load Regulation	$ riangle V_o$		20mV	160mV	5mA≦I _o ≦0.5A, T _j =25℃
			10mV	80mV	$5mA \le I_0 \le 200mA$, $T_i = 25^{\circ}C$
Line regulation	△V₀		6mV 2.0mV	100mV 50mV	$10.5V \le V_1 \le 25V$, $I_0 = 0.2A$ $11V \le V_1 \le 25V$, $I_0 = 0.2A$
Quiescent Current	Iq		4.6mA	6.0mA	T _j =25℃
Quiescent Current Change	$\triangle I_q$			0.8mA 0.5mA	$\begin{array}{l} 10.5V\!\leq\!V_{i}\!\leq\!25V,I_{0}\!\!=\!\!0.2A\\ 5mA\!\leq\!I_{o}\!\leq\!350mA \end{array}$
Output Noise Voltage	V _N		52μV		10Hz≦f≦100Hz
Ripple Rejection	RR	56dB	80dB		$ \begin{array}{l} 11.5V \! \leq \! V_1 \! \leq \! 21.5V \\ f \! = \! 120Hz, I_0 \! = \! 0.3A \\ T_j \! = \! 25^{\circ}\! \mathbb{C} \end{array} $
Dropout Voltage	V_{d}		2.0V		T _j =25℃
Output Short Circuit Current	I _{SC}		250mA		V _i =14V, T _j =25℃
Peak Output Current	l _{pk}		0.7A		T _j =25℃





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
C	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		
I	0.236	0.244	6.00	6.20	
	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.114		2.	90	
L	0.055	0.067	1.40	1.70	
M	0.063		1.60		
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.211		5.35		



Micro Commercial Components

Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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.