

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

Features

- Halogen free available upon request by adding suffix "-HF"
- 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

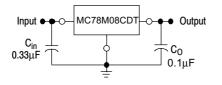
Maximum Ratings @ T_=25°C, Unless Otherwise Noted

Parameter	Symbol	Value	Unit
Input Voltage	Vi	10.5~25	V
Storage Temperature Range	T _{STG}	-65+150	°C

Electrical Characteristics (Vi=10V, Io=350mA, $0^{\circ}C$ <Tj<125 $^{\circ}C$, Ci=0.33uF. Co=0.1uF. Unless Otherwise Specified)

Parameter	Sym	Min	Тур	Max	Test conditions
Output V ₀ Voltage		7.7V	8.0V	8.3V	Tj =25 ℃
	V ₀	7.6V	8.0V	8.4V	$\begin{array}{l} 10.5 V {\leq} V_i {\leq} 23 V, \\ 5 m A {\leq} I_0 {\leq} 350 m A, \end{array}$
Load Regulation	$\wedge V_0$			160mV	5mA≦I ₀ ≦0.5A, Tj=25℃
	∆V₀			80mV	5mA≦I _o ≦200mA, Tj=25℃
Line regulation	$ riangle V_o$			100mV 50mV	$\begin{array}{c} 11V {\leq} V_1 {\leq} 25V, I_0 {=} 0.2A \\ 10.5V {\leq} V_1 {\leq} 25V, I_0 {=} 0.2A \end{array}$
Quiescent Current	lq			6.0mA	Tj=25℃
Quiescent Current Change	$ riangle I_q$			0.8mA 0.5mA	$\begin{array}{l} 10.5V\!\leq\!V_{i}\!\leq\!25V,I_{O}\!\!=\!\!0.2A\\ 5mA\!\leq\!I_{o}\!\leq\!350mA \end{array}$
Output Noise Voltage	V _N		52µV		10Hz≦f≦100Hz
Dropout Voltage	V_{d}		2.0V		T _j =25 ℃

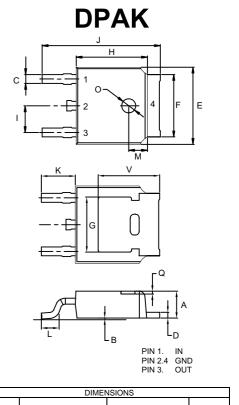
TYPICAL APPLICATION



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

MC78M08CDT

Three-Terminal Positive Voltage Regulators



	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
А	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
E	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		
Н	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	
К	0.114		2.90		
L	0.055	0.067	1.40	1.70	
М	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	

www.mccsemi.com

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Ordering Information :

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

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

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