



Micro Commercial Components

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

# MC78M06ACDT

## Features

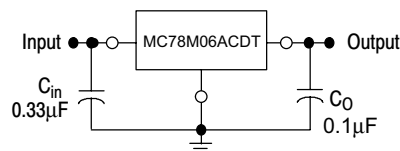
- Output current in excess of 0.5 Ampere
- Internal thermal overload protection
- Internal short-circuit current limiting
- High power dissipation capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings @ $T_A=25^\circ\text{C}$ , Unless Otherwise Noted

Parameter	Symbol	Value	Unit
Input Voltage	$V_i$	35	V
Operating Junction Temperature Range	$T_{OPR}$	0---+125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65---+150	$^\circ\text{C}$

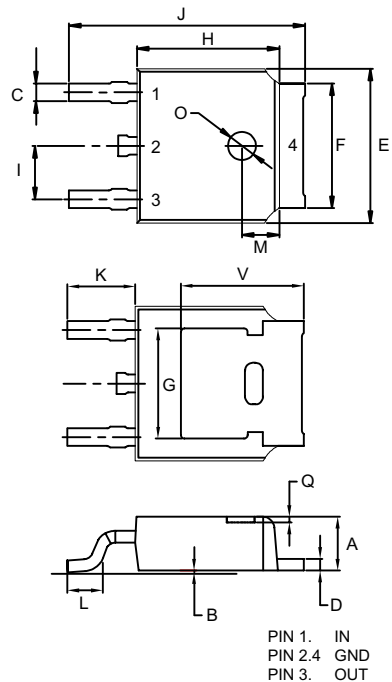
### Electrical Characteristics ( $V_i=11\text{V}$ , $I_o=350\text{mA}$ , $0^\circ\text{C} < T_j < 125^\circ\text{C}$ , $C_i=0.33\mu\text{F}$ , $C_o=0.1\mu\text{F}$ , Unless Otherwise Specified)

Parameter	Sym	Min	Typ	Max	Test conditions
Output Voltage	$V_o$	5.88V	6.0V	6.12V	$T_j=25^\circ\text{C}$
		5.83V	6.0V	6.17V	$8\text{V} \leq V_i \leq 21\text{V}$ , $5\text{mA} \leq I_o \leq 350\text{mA}$ , $P_D=15\text{W}$
Load Regulation	$\Delta V_o$		18mV	120mV	$5\text{mA} \leq I_o \leq 0.5\text{A}$ , $T_j=25^\circ\text{C}$
			10mV	60mV	$5\text{mA} \leq I_o \leq 200\text{mA}$ , $T_j=25^\circ\text{C}$
Line regulation	$\Delta V_o$		5mV 1.5mV	100mV 50mV	$8\text{V} \leq V_i \leq 25\text{V}$ , $I_o=0.2\text{A}$ $9\text{V} \leq V_i \leq 25\text{V}$ , $I_o=0.2\text{A}$
Quiescent Current	$I_q$		4.3mA	6.0mA	$T_j=25^\circ\text{C}$
Quiescent Current Change	$\Delta I_q$			0.8mA 0.5mA	$9\text{V} \leq V_i \leq 25\text{V}$ , $I_o=0.2\text{A}$ $5\text{mA} \leq I_o \leq 350\text{mA}$
Output Noise Voltage	$V_N$		45 $\mu\text{V}$		10Hz $\leq f \leq$ 100Hz
Ripple Rejection	RR	59dB	80dB		$9\text{V} \leq V_i \leq 19\text{V}$ $f=120\text{Hz}$ , $I_o=0.3\text{A}$ $T_j=25^\circ\text{C}$
Dropout Voltage	$V_d$		2.0V		$T_j=25^\circ\text{C}$
Output Short Circuit Current	$I_{sc}$		270mA		$V_i=11\text{V}$ , $T_j=25^\circ\text{C}$
Peak Output Current	$I_{pk}$		0.7A		$T_j=25^\circ\text{C}$



## Three-Terminal Positive Voltage Regulators

### DPAK



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.087	0.094	2.20	2.40	
B	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	
E	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		
H	0.236	0.244	6.00	6.20	
I	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		
O	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.