

## Features

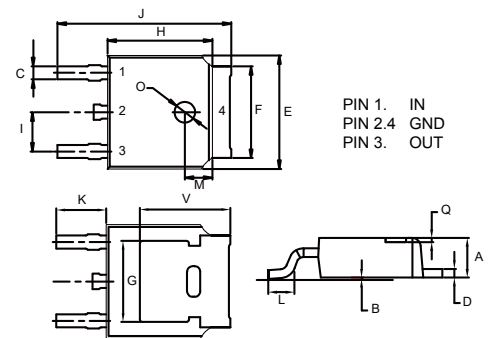
- Output Current in Excess of 0.5 Ampere
- Internal Thermal Overload Protection
- Internal Short-circuit Current Limiting
- High Power Dissipation Capability
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

## Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	$V_I$	35	V
Power Dissipation	$P_D$	1.25	W
Operating Junction Temperature $T_{OJ}^*$	$T_{OPR}$	0~125	°C
Storage Temperature Range	$T_{STG}$	-65~125	°C
Thermal Resistance junction to Ambient	$R_{\theta JA}$	100	°C/W

# Three-Terminal Positive Voltage Regulators

## DPAK(TO-252)



### DIMENSIONS

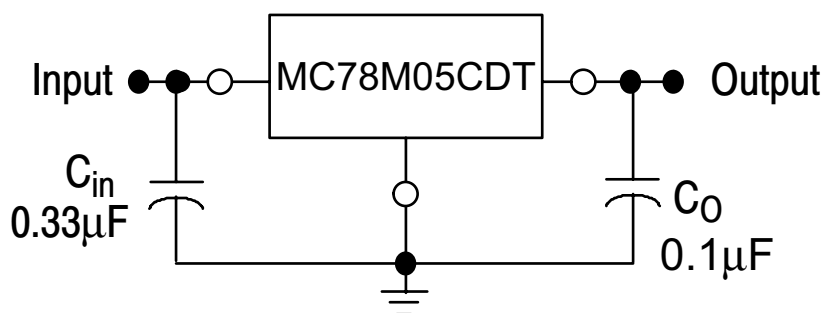
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.087	0.094	2.20	2.40	
B	0.000	0.005	0.00	0.13	
C	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
E	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		TYP.
H	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
K	0.114		2.90		TYP.
L	0.055	0.067	1.40	1.70	
M	0.063		1.60		TYP.
O	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.211		5.35		TYP.

**Electrical Characteristics**

( $V_i=10V$ ,  $I_o=350mA$ ,  $0^\circ C < T_j < 125^\circ C$ ,  $C_i=0.33\mu F$ ,  $C_o=0.1\mu F$ , Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	$V_o$	$T_j=25^\circ C$	4.8	5.0	5.2	V
		$7V \leq V_i \leq 20V$ , $5mA \leq I_o \leq 350mA$ , $P_D=15W$	4.75	5.0	5.25	V
Load Regulation	$\Delta V_o$	$5mA \leq I_o \leq 500mA$ , $T_j=25^\circ C$	-	15	100	mV
		$5mA \leq I_o \leq 200mA$ , $T_j=25^\circ C$	-	5.0	50	mV
Line Regulation	$\Delta V_o$	$7.0V \leq V_i \leq 25V$ , $I_o=0.5A$	-	3.0	100	mV
		$8.0V \leq V_i \leq 25V$ , $I_o=0.5A$	-	1.0	50	mV
Quiescent Current	$I_q$	$T_j=25^\circ C$	-	4.2	6.0	mA
Quiescent Current Change	$\Delta I_q$	$8V \leq V_i \leq 25V$ , $I_o=200mA$ , $5mA \leq I_o \leq 350mA$	-	-	0.8	mA
			-	-	0.5	mA
Output Noise Voltage	$V_N$	$10Hz \leq f \leq 120Hz$	-	40	200	$\mu V$
Ripple Rejection	RR	$8V \leq V_i \leq 18V$ , $f=120Hz$ , $I_o=0.3A$ , $T_j=25^\circ C$	62	80	-	dB
Dropout Voltage	$V_d$	$I_o=0.35A$ , $T_j=25^\circ C$	-	2.0	2.5	V
Output Short Circuit Current	$I_{sc}$	$V_i=10V$ , $T_j=25^\circ C$	-	300	-	mA
Peak Output Current	$I_{PK}$	$T_j=25^\circ C$	-	0.7	-	A

**Typical Application**



Curve Characteristics

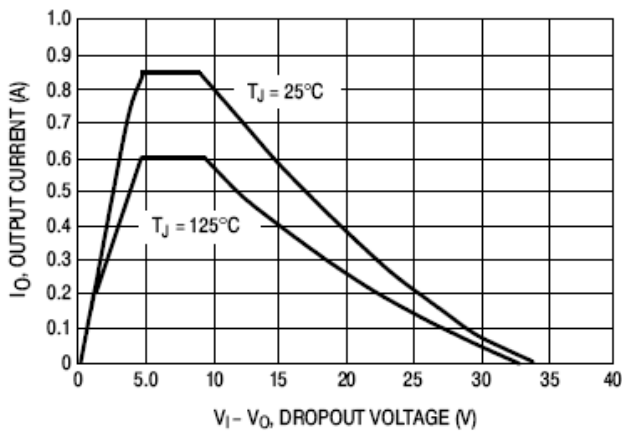


Figure 1. Peak Output Current versus Dropout Voltage

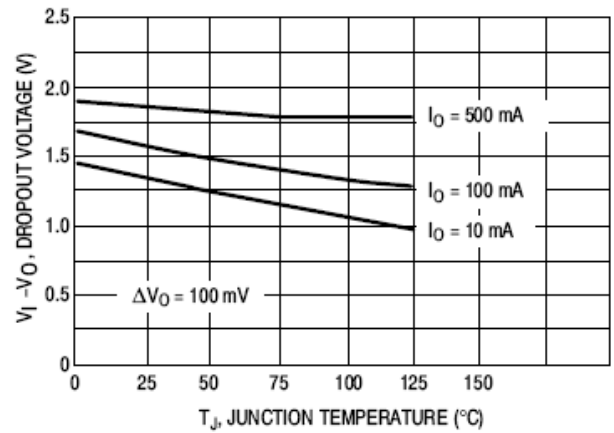


Figure 2. Dropout Voltage versus Junction Temperature

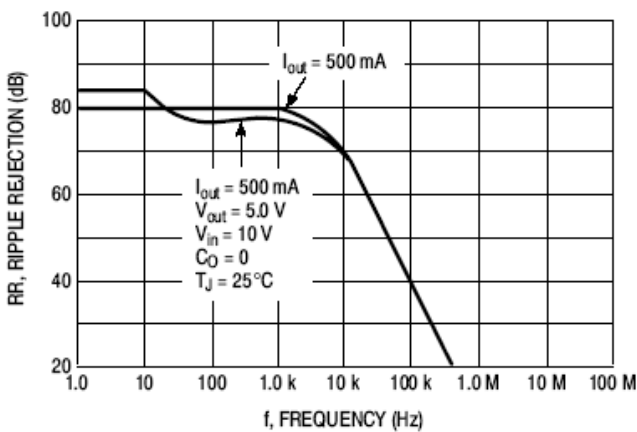


Figure 3. Ripple Rejection versus Frequency

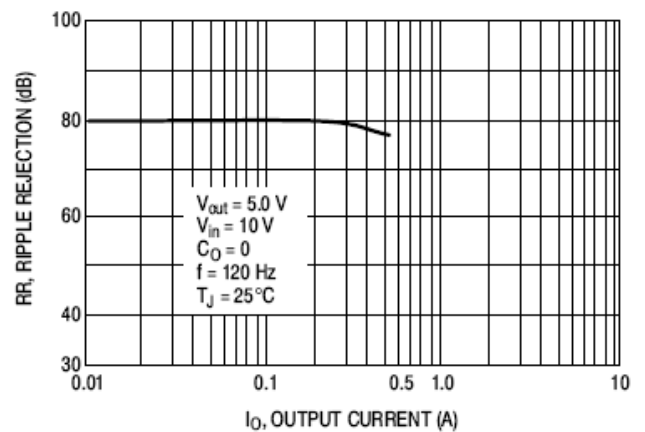


Figure 4. Ripple Rejection versus Output Current

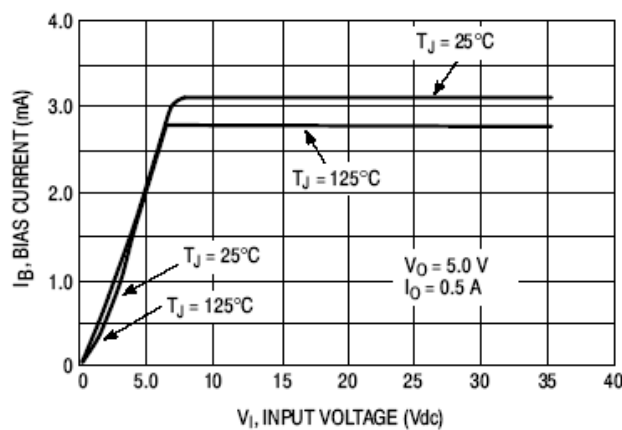


Figure 5. Bias Current versus Input Voltage

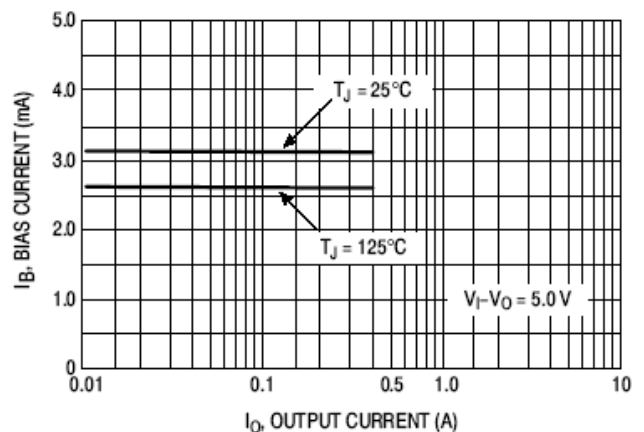


Figure 6. Bias Current versus Output Current

## 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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