

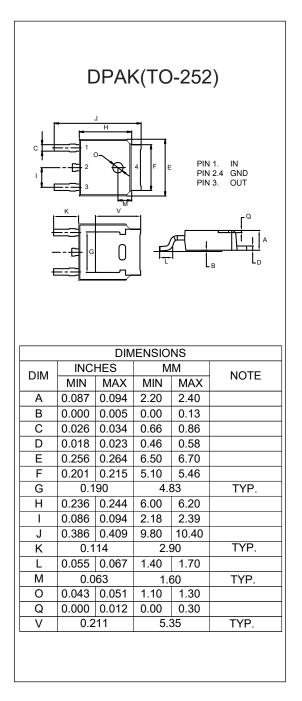
Features

- 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	VI	35	V
Power Dissipation	P _D	1.25	W
Operating Junction Temperature Range	T _{OPR}	0~125	°C
Storage Temperature Range	T _{STG}	-65~125	°C
Thermal Resistance junction to Ambient	$R_{ extsf{ heta}JA}$	100	°C/W

Three-Terminal Positive Voltage Regulators



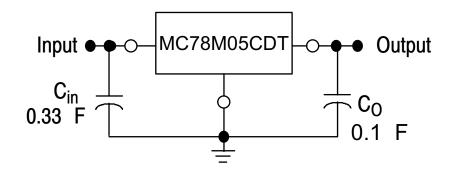


Electrical Characteristics

(V_i=10V, I_o=350mA, 0°C < T_j < 125 °C,C_i=0.33uF, C_o=0.1uF,Unless Otherwise Specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Output Voltage	Vo	T _j =25°C	4.8	5.0	5.2	V
		7V≤V _i ≤20V,5mA≤I₀≤350mA, P _D =15W	4.75	5.0	5.25	V
Load Regulation	۵Vo	5mA≤l₀≤500mA,Tj=25°C	-	15	100	mV
		5mA≤l₀≤200mA,Tj=25°C	-	5.0	50	mV
Line Regulation	∆Vo	7.0V≤V₁≤25V,I₀=0.5A	-	3.0	100	mV
		8.0V≤V₁≤25V,I₀=0.5A	-	1.0	50	mV
Quiescent Current	lq	T _j =25°C	-	4.2	6.0	mA
Ouissent Quarant Charge	۵lq	8V≤Vi≤25V,I₀=200mA, 5mA≤I₀≤350mA	-	-	0.8	mA
Quiescent Current Change			-	-	0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤120Hz	-	40	200	μV
Ripple Rejection	RR	8V≤Vi≤18V, f=120Hz,I₀=0.3A,Tj=25°C	62	80	_	dB
Dropout Voltage	V _d	I _o =0.35A,T _j =25°C	-	2.0	2.5	V
Output Short Circuit Current	I _{sc}	V _i =10V, T _j =25°C	-	300	-	mA
Peak Output Current	I _{PK}	T _j =25°C	-	0.7	-	А

Typcial Application





Curve Characteristics

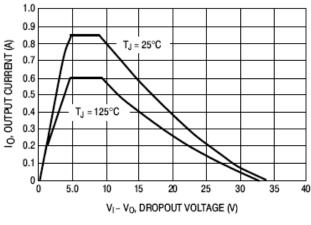


Figure 1.Peak Output Current versus Dropout Voltage

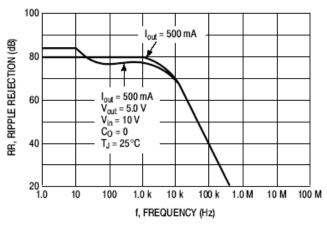


Figure 3. Ripple Rejection versus Frequency

T_J = 125°C

T_J = 25°C

T_J = 125°C

10

15

T_J = 25°C

V_O = 5.0 V I_O = 0.5 A

30

35

25

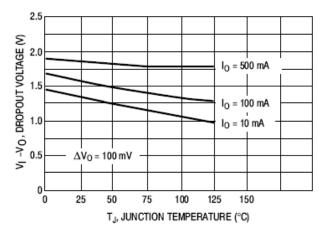


Figure 2. Dropout Voltage versus Junction Temperature

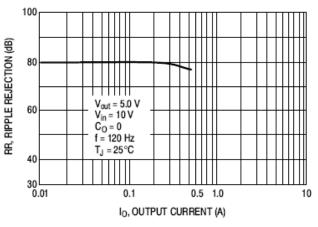


Figure 4. Ripple Rejection versus Output Current

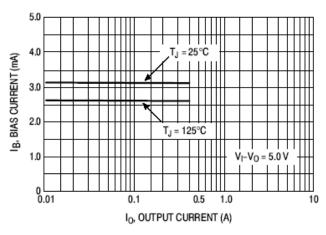


Figure 5. Bias Current versus Input Voltage

20

VI, INPUT VOLTAGE (Vdc)

Figure 6. Bias Current versus Output Current

4.0

3.0

2.0

1.0

0

0

5.0

IB, BIAS CURRENT (mA)

40



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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