

Features

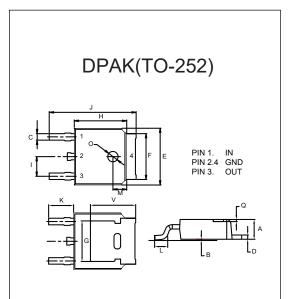
- · Output Current in Excess of 0.5 Ampere
- · Internal Thermal Overload Protection
- · Internal Short-circuit Current Limiting
- · High Power Dissipation Capability
- · Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS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

Maximum Ratings

Parameter	Symbol	Value	Unit	
Input Voltage	Vı	35	V	
Power Dissipation	P _D	1.25	W	
Operating Junction Temperature ÁÜæ) * ^	T _{OPR}	0~125	°C	
Storage Temperature Range	T _{STG}	-65~125	Ĵ	
Thermal Resistance junction to Ambient	$R_{\theta JA}$	100	°C/W	

Note:

Three-Terminal Positive Voltage Regulators



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	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		
Е	0.256	0.264	6.50	6.70		
F	0.201	0.215	5.10	5.46		
G	0.190		4.83		TYP.	
Η	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		TYP.	
L	0.055	0.067	1.40	1.70		
М	0.063		1.60		TYP.	
0	0.043	0.051	1.10	1.30		
Q	0.000	0.012	0.00	0.30		
V	0.211		5.3	35	TYP.	

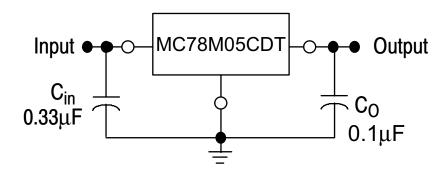
^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



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
	Vo	T _j =25°C	4.8	5.0	5.2	V
Output Voltage		7V≤V _i ≤20V,5mA≤I _o ≤350mA, P _D =15W	4.75	5.0	5.25	V
Load Regulation	△Vo	5mA≤I _o ≤500mA,T _j =25°C	-	15	100	mV
Load Regulation		5mA≤I _o ≤200mA,T _j =25°C	-	5.0	50	mV
Line Degulation	△Vo	7.0V≤V₁≤25V,I₀=0.5A	-	3.0	100	mV
Line Regulation		8.0V≤V ₁ ≤25V,I _o =0.5A	-	1.0	50	mV
Quiescent Current	Iq	T _j =25°C	-	4.2	6.0	mA
Ovieses to Comment Change	uiescent Current Change	8V≤V _i ≤25V,I _o =200mA,	-	-	0.8	mA
Quiescent Current Change		5mA≤I₀≤350mA	-	-	0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤120Hz	-	40	200	μV
Ripple Rejection	RR	8V≤V _i ≤18V, f=120Hz,I _o =0.3A,T _j =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	-	Α

Typcial Application





Curve Characteristics

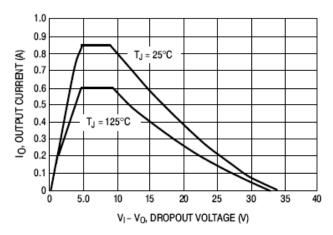


Figure 1.Peak Output Current versus Dropout Voltage

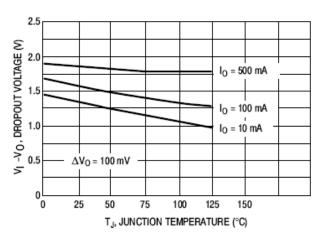


Figure 2. Dropout Voltage versus Junction Temperature

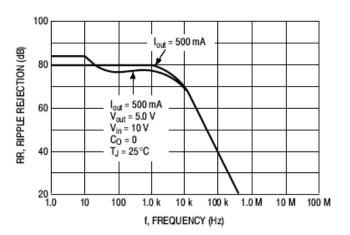


Figure 3. Ripple Rejection versus Frequency

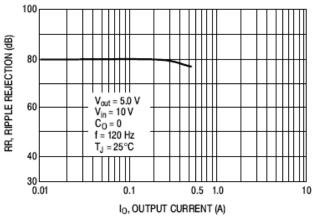


Figure 4. Ripple Rejection versus Output Current

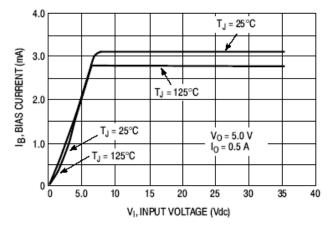


Figure 5. Bias Current versus Input Voltage

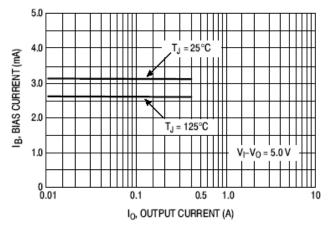


Figure 6. Bias Current versus Output Current



Ordering Information

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

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