

Features

- · Output Current in Excess of 1.0 Ampere
- · Internal Thermal Overload Protection
- Internal Short-circuit Current Limiting
- · High Power Dissipation Capability
- · Moisture Sensitivity Level 1
- Halogen Free."Green"Device(Note1)
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

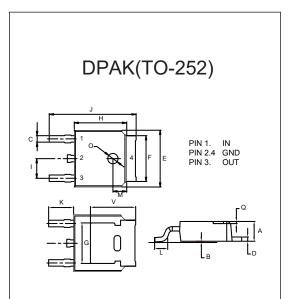
Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage	Vı	35	V
Power Dissipation	P _D	1.25	W
Operating Junction TemperatureÁÜæ)*^	T _{OPR}	0~125	°C
Storage Temperature Range	T _{STG}	-55~150	°
Thermal Resistance junction to Ambient	$R_{\theta JA}$	100	°C/W

Note

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

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		5.35		TYP.



Electrical Characteristics

 $(V_i=10V,\,I_o=500mA,\,0^{\circ}C < T_j <\,125\,^{\circ}C,C_i=0.33uF,\,C_o=0.1uF,Unless\,Otherwise\,Specified)$

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Output Voltage	Vo	T _j =25°C	4.8	5.0	5.2	V
		8V≤V _i ≤20V,5mA≤I _o ≤1000mA, P _D =15W	4.75	5.0	5.25	V
Load Regulation	△Vo	5mA≤I _o ≤1000mA,T _j =25°C	-	-	100	mV
	Δ ν 0	250mA≤I _o ≤750mA,T _j =25°C	-	-	50	mV
Line Regulation	ΔVo	7.5V≤V₁≤20V,I₀=0.5A	-	-	100	mV
	△ △ △	8.0V≤V ₁ ≤12V,I _o =0.5A	-	-	50	mV
Quiescent Current	Iq	T _j =25°C	-	-	8.0	mA
Outlean and Outlean Adhanas	rent Change ΔI_q 8V≤V _i ≤25V,I _o =500mA, 5mA≤I _o ≤1000mA	8V≤V _i ≤25V,I _o =500mA,	-	-	0.8	mA
Quiescent Current Change		5mA≤I₀≤1000mA	-	-	0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100Hz	-	42	-	μV
Ripple Rejection	RR	8V≤V _i ≤18V, f=120Hz,I _o =0.3A,T _j =25°C	62	-	-	dB
Dropout Voltage	V _d	V _i =7V, I _o =1A	4.8	-	5.2	V
Output Short Circuit Current	I _{sc}	V _i =35V, T _a =25°C	-	220	-	mA
Output Current	Io	T _j =25°C	-	1	-	Α

Rev.3-3-09022023 2/3 MCCSEMI.COM



Ordering Information

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

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Rev.3-3-09022023 3/3 MCCSEMI.COM