

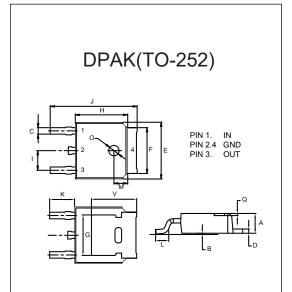
#### **Features**

- 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 Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

# Three-Terminal Positive Voltage Regulators

# **Maximum Ratings**

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



DIMENSIONS						
DIM	INC	INCHES		IM	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		
E	0.256	0.264	6.50	6.70		
F	0.201	0.215	5.10	5.46		
G	0.190		4.83		TYP.	
Н	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		
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 <sub>j</sub> =25°C	4.8	5.0	5.2	V
		8V≤V <sub>i</sub> ≤20V,5mA≤I <sub>o</sub> ≤1000mA, P <sub>D</sub> =15W	4.75	5.0	5.25	V
Load Regulation		5mA≤I <sub>o</sub> ≤1000mA,T <sub>j</sub> =25°C	-	-	100	mV
	△Vo	250mA≤I <sub>o</sub> ≤750mA,T <sub>j</sub> =25°C	-	-	50	mV
Line Regulation		7.5V≤V₁≤20V,I₀=0.5A	-	-	100	mV
	△Vo	8.0V≤V <sub>1</sub> ≤12V,I <sub>o</sub> =0.5A	-	-	50	mV
Quiescent Current	Iq	T <sub>j</sub> =25°C	-	-	8.0	mA
Quiescent Current Change		8V≤V <sub>i</sub> ≤25V,I <sub>o</sub> =500mA,	-	-	0.8	mA
		-	-	0.5	mA	
Output Noise Voltage	V <sub>N</sub>	10Hz≤f≤100Hz	-	42	-	μV
Ripple Rejection	RR	8V≤V <sub>i</sub> ≤18V, f=120Hz,I <sub>o</sub> =0.3A,T <sub>j</sub> =25°C	62	-	-	dB
Dropout Voltage	V <sub>d</sub>	V <sub>i</sub> =7V, I <sub>o</sub> =1A	4.8	-	5.2	V
Output Short Circuit Current	I <sub>sc</sub>	V <sub>i</sub> =35V, T <sub>a</sub> =25°C	-	220	-	mA
Output Current	Io	T <sub>j</sub> =25°C	-	1	-	А

Rev.3-2-12012020 2/3 MCCSEMI.COM



## **Ordering Information**

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

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

#### \*\*\*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. **Micro Commercial Components Corp**, products are sold subject to the general terms and conditions of commercial sale, as published at

## https://www.mccsemi.com/Home/TermsAndConditions.

## \*\*\*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.

Rev.3-2-12012020 3/3 MCCSEMI.COM