

Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant.)
- · Internal Short Circuit Current Limiting
- · Internal Thermal Overload Protection
- · No External Components Required
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Moisure Sensitivity Level 1

Three-Terminal Low Current Positive Voltage Regulator

Maximum Ratings

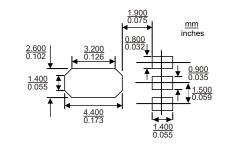
Parameter	Symbol	Value	Unit
Input Voltage	V _I	30	V
Maximum Output Current	Io	0.1	Α
Power Dissipation	P _d	0.35	W
Operating Junction Temperature	T _{OPR}	-25~125	°C
Storage Temperature Range	T _{STG}	-55~150	°C

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

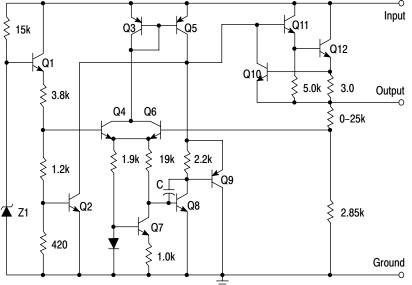
SOT-89 2 GND OUT

DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE
Α	0.169	0.185	4.30	4.70	
В	0.061		1.55		TYP.
С	0.154	0.171	3.91	4.35	
D	0.031	0.047	0.80	1.20	
E	0.089	0.104	2.25	2.65	
F	0.118		3.00		TYP.
G	0.013	0.020	0.33	0.52	
Н	0.015	0.021	0.38	0.53	
J	0.014	0.017	0.35	0.44	
K	0.055	0.063	1.40	1.60	
L	L 0.059		1.	50	TYP.

Q4 0-25k Suggested Solder Pad Layout



Schematic Diagram



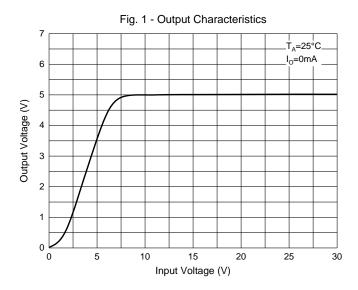


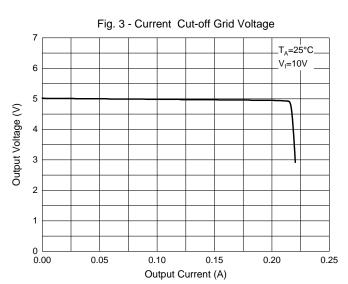
Electrical Characteristics (V_1 =10V, I_0 =40mA, C_1 =0.33uF, C_0 =0.1uF, unless otherwise specified)

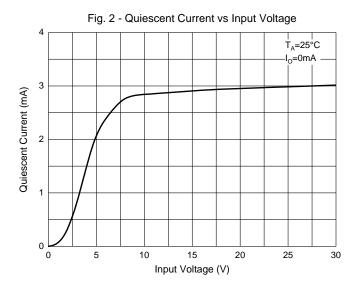
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Output Voltage		V_1 =7V-20V I_0 =1mA-40mA T_j =25°C	4.8	-	5.2	V
	V _o	V _I =10V I _O =100mA T _j =25°C	4.75	-	5.25	V
Load Regulation	ΔVo	I _O =1mA-100mA, T _j =25°C,	-0.06	-	0.06	V
	Δνο	I _O =1mA-40mA, T _j =25°C	-0.03	-	0.03	V
Line regulation △Vo	۸۱/۵	V _I =7V-20V, T _j =25°C	-0.15	-	0.15	V
	V _I =8V-20V, T _j =25°C	-0.1	-	0.1	V	
Quiescent Current	Iq	V _I =10V,I _O =40mA	-	-	5.5	mA
Quiescent Current Change	A.I.	V _I =8V-20V,I _O =40mA	-0.15	-	0.15	mA
	$\triangle I_q$	V _I =10V,I _O =1mA-40mA	-0.1	-	0.1	mA

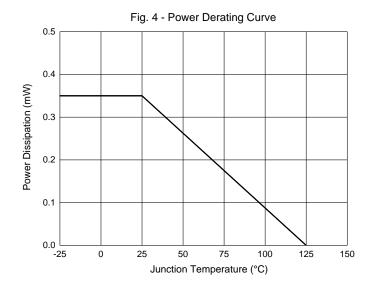


Curve Characteristics











Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel:1Kpcs/Reel	

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