

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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TL431ALP

Features

- Halogen free available upon request by adding suffix "-HF" Programmable Output Voltage 36V
- Sink Current Capability of 0.1mA to 100 mA
- Temperature Compensated for operation over full rated operating temperature range
- Low output noise voltage and Fast turn on response
- Marking Code: TL431
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Parameter	Symbol	Value	Unit
Cathode Voltage	V_{KA}	37	V
Cathode Current Range	I _K	-100~150	mA
Reference Input Current Range	I _{REF}	0.05~10	mA
Power Dissipation at 25°C	P _D	0.7	W
Thermal Resistance junction to ambient	$R_{\theta JA}$	178	°C/W
Junction Temperature	TJ	0150	$^{\circ}\mathbb{C}$
Operating Temperature	T _{opr}	070	$^{\circ}\mathbb{C}$
Storage Temperature Range	T _{STG}	-55+150	$^{\circ}\mathbb{C}$

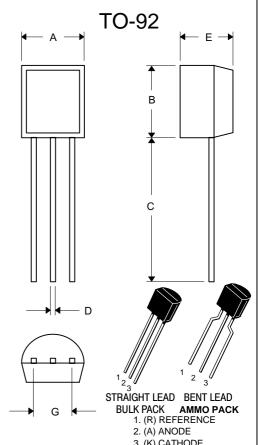
Recommended Operating Conditions

Parameter	Sym	Min	Max	Unit
Cathode Voltage	V_{KA}	V_{REF}	36	V
Cathode Current Range	l _K	1.0	100	mA

Electrical Characteristics @ 25° C Unless Otherwise Specified

Parameter	Sym	Min	Тур	Max	Test conditions
Reference Input Voltage	V_{ref}	2.475V	2.500V	2.525V	
Deviation of reference input voltage	$V_{\text{ref(dev)}}$		3.0mV	17mV	$T_{min} \leq Ta \leq T_{max}$
Ratio of Change in Reference Input	△V _{ref} /		-1.4	-2.7	\triangle V _{KA} =10V \sim V _{ref}
Voltage to the Change in Cathode Voltage	△V _{KA}		-1.0	-2.0	△ V _{KA} =36V~10V
Reference Input Current	I _{ref}		1.8µA	4.0µA	I_{KA} =10mA, R_1 =10K Ω , R_2 = ∞
Deviation of Reference Input Current Over Full Temperature Range	△I _{ref} / △T		0.4μΑ	1.2µA	I_{KA} =10mA, R_1 =10K Ω , R_2 = ∞ T_A =full Temperature
Minimum Cathode Current for Regulation	I _{KA(min)}		0. 5mA	1.0mA	
Off-State Cathode Current	I _{KA(off)}		0.26μΑ	1.0µA	V _{KA} =36V, V _{REF} =0V
Dynamic Impedance	Z _{KA}		0.22Ω	0.5Ω	I_{KA} =10 to 100mA, f≤1.0KHz

Programmable Precision Regulator



4.45 4.70

В .175 .185 12.70 С .500 .016 .020 0.63 0.41 .095 .105 2.42 2.67

For ammo packing detailed specification, click here to visit our website of product packaging for details



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Ordering Information:

Device	Packing		
Part Number-AP	Ammo Packing: 20Kpcs/Carton		
Part Number-BP	Bulk: 100Kpcs/Carton		

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