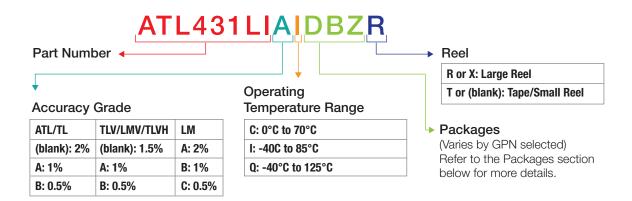
431 Device Nomenclature

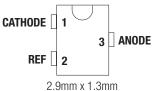
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431 Family of Devices

Device	V _{REF} (typ)	V _{KA} (max)	I _{KA} (min)	I _{KA} (max)	I _{REF} (max)	I _{I(dev)} (max)
ATL431/2LI	2.5V	36V	100μΑ	15mA	0.4μΑ	0.3μΑ
ATL431/2	2.5V	36V	35μΑ	100mA	150nA	50nA
TL431/2LI	2.5V	36V	1mA	15mA	0.4μΑ	0.3μΑ
<u>TL431/2</u>	2.5V	36V	1mA	100mA	100mA 4μA	
<u>LM431</u>	2.5V	36V	1mA	100mA	4μΑ	1.2μΑ
TLV431/2	1.24V	6V	100μΑ	15mA	0.5μΑ	0.5μΑ
TLVH431/2	1.24V	18V	100μΑ	70mA	0.5μΑ	0.5μΑ
LMV431	1.24V	30V	80µА	15mA	0.5μΑ	0.3μΑ

TL431LIA. TL431LIB DBZ 3-Pin, SOT-23 (Top View)

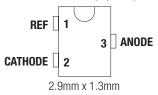


431 Packages

Code	Package	<u>TL431/2LI</u>	TL431/2	LM431	TLV431/2	<u>LMV431</u>	TLVH431/2	ATL431/2	ATL431/2LI
D/M	SOIC (8)		1	1	1				
DBV	S0T-23 (5)		✓		1	1	1		
DBZ/M3	S0T-23 (3)	1	1	/	1	1	1	1	✓
DQN	X2SON(4)								1
PK	S0T-89 (4)		1		1		1		
PK	SC-70 (6)		1		1		1		
LP/Z	T0-92 (3)		1	1	1	1	1		
P	PDIP (8)		✓						
PS	SOP (8)		✓						
PW	TSSOP (8)		✓						

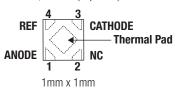
TL432LIA, TL432LIB DBZ

3-Pin, SOT-23 (Top View)



ATL431LI DQN Package

4-Pin, X2SON (Top View)



ti.com/431 4Q 2019

Design Resources

- Designing with the Improved TL431LI
- Designing with the ATL431LI
- Using the TL431 as a Voltage Comparator
- · Setting the Shunt Voltage on a Shunt Regulator
- Understanding Stability Boundary Conditions for TL431
- Flyback Compensation Network Design for TL431
- Video: Shunt Reference Considerations for Optocoupler Feedback

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