TL431

Rev.G Jan.-2022

Precision adjustable shunt regulator in a TO-92 Plastic Package.

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Parameter	Symbol	[redacted]
Cathode to Anode Voltage	V_{KA}	
Cathode Current nge, Continuous	7	

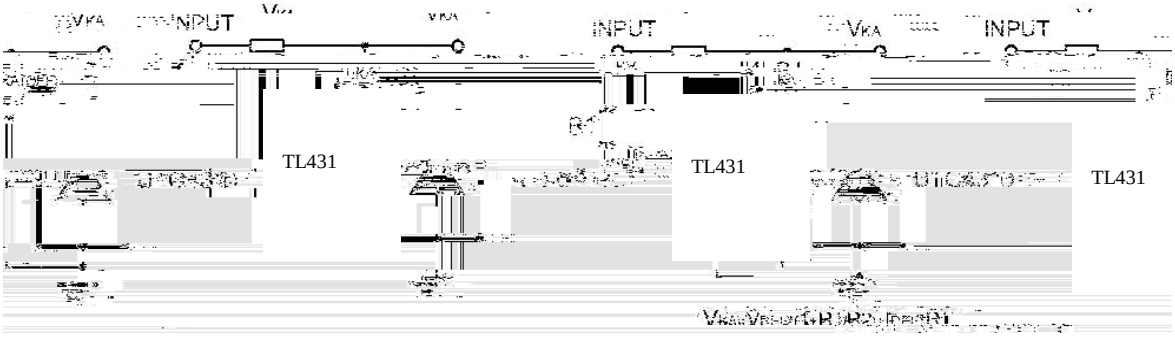
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& Test circuits&Typical Application

BLOCK DIAGRAM:



TEST CIRCUITS:

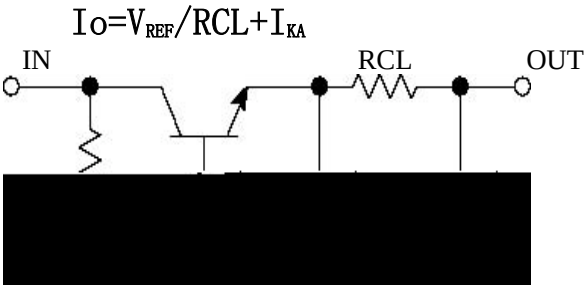


Test Circuit For VKA=VREF Test Circuit for VKA≥VREF Test Circuit For IKA(OFF)

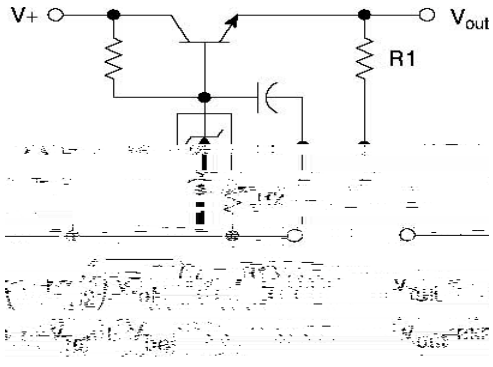
TYPICAL APPLICATION:



Shutdown Regulator Higher-current Shunt

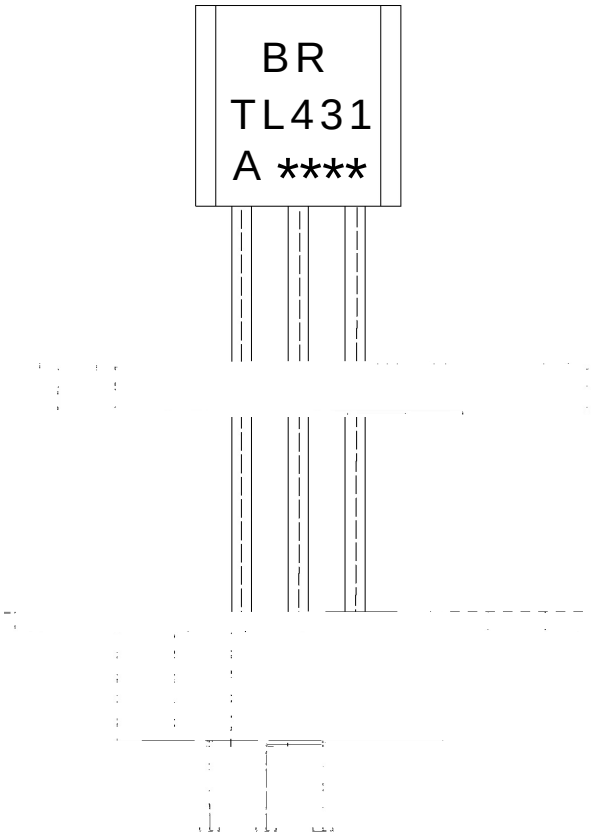


Constant Current Source



Series Pass Regulator

/ Marking Instructions



BR

TL431

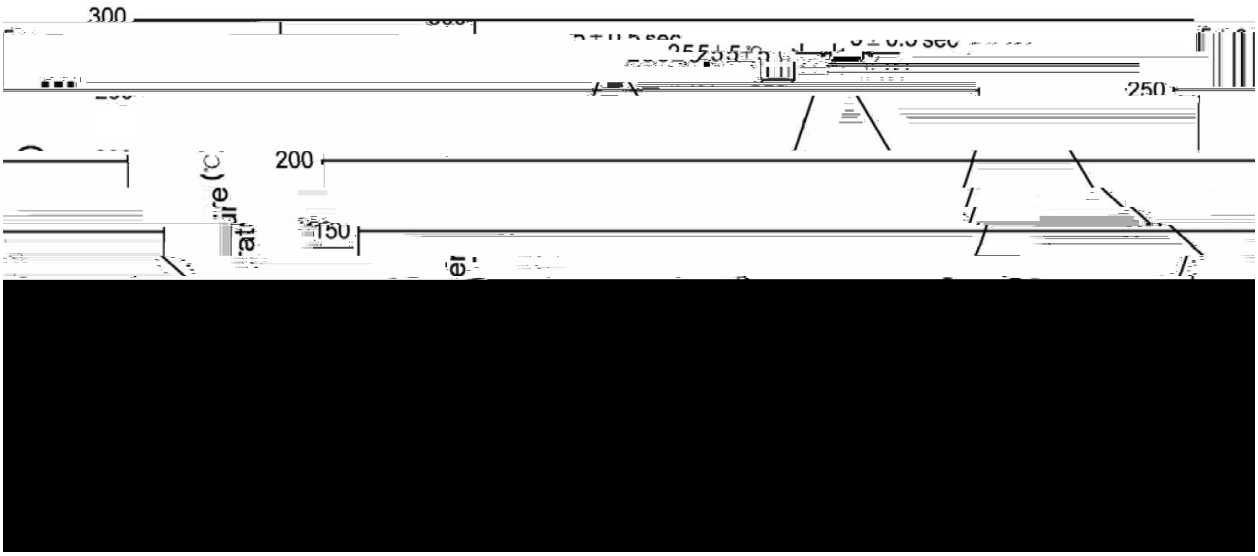
A: V_{REF}

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Note:

BR:	Company Code.
TL431:	Product Type.
A:	V_{REF} Classifications Symbol
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



				Note:
1	25	150	60 90sec;	1.Preheating:25~150℃, Time:60~90sec.
2	255±5		5±0.5sec;	2.Peak Temp.:255±5℃, Duration:5±0.5sec.
3		2	10℃/sec.	3. Cooling Speed: 2~10℃/sec.

/ Resistance to Soldering Heat Test Conditions

270±5℃	10±1 sec.	Temp:27