TL431

Rev.G Jan.-2022

TO-92

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

2.495V; 0.5%,1% 2%; 1.0mA 100mA; ;
V_O=V

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

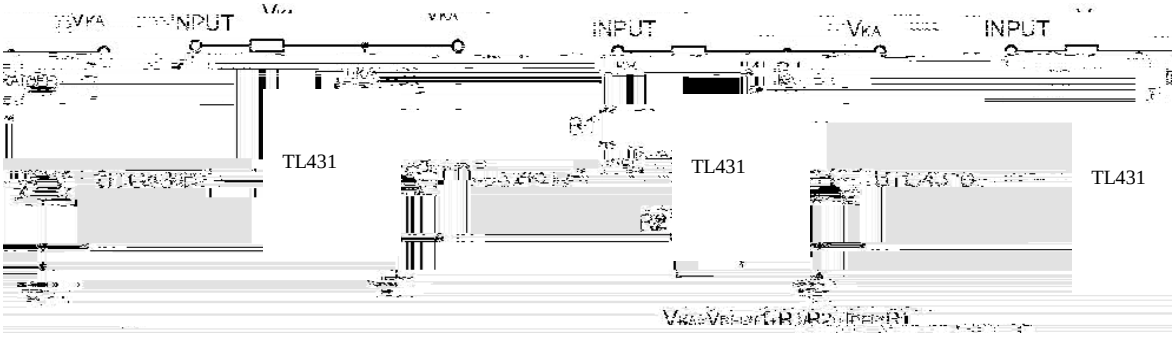
K

& Test circuits&Typical Application

BLOCK DIAGRAM:

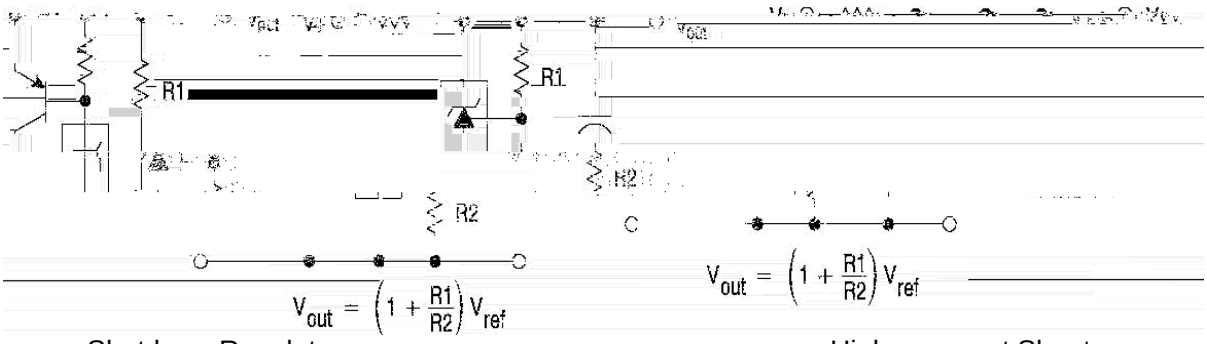


TEST CIRCUITS:

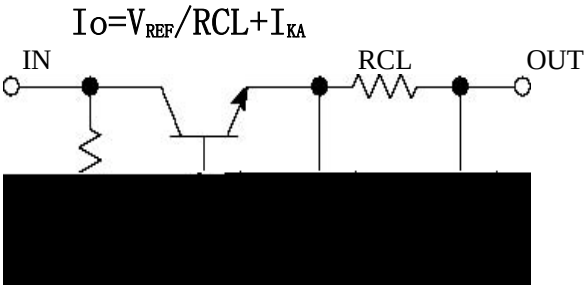


Test Circuit For VKA=VREF Test Circuit for VKA≥VREF Test Circuit For IKA(OFF)

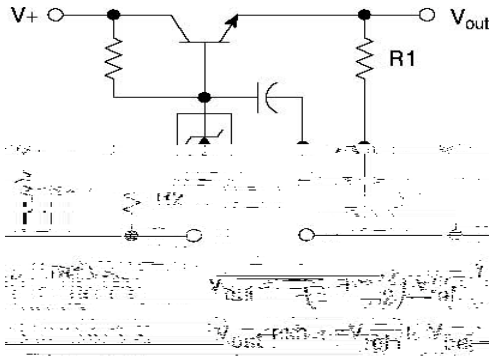
TYPICAL APPLICATION:



Shutdown Regulator Higher-current Shunt

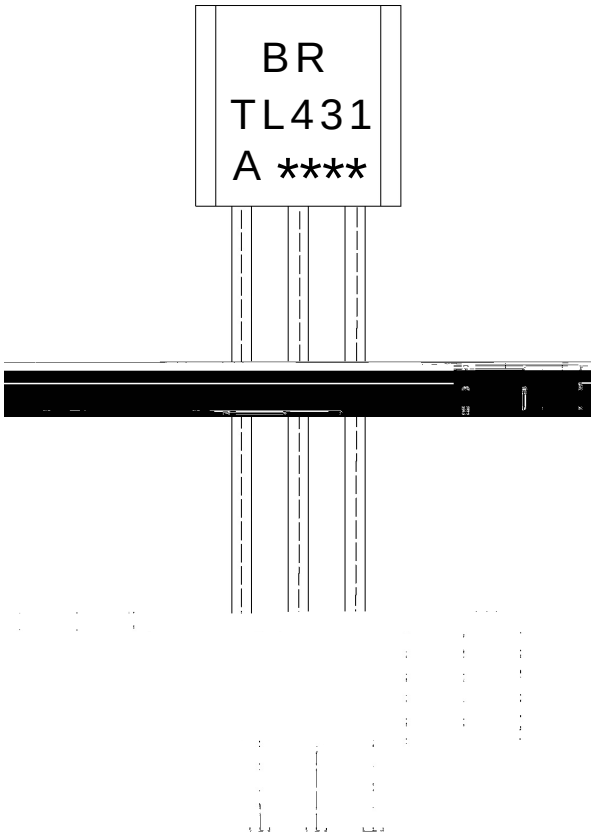


Constant Current Source



Series Pass Regulator

/ Marking Instructions



BR

TL431

A: V_{REF}

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Note:

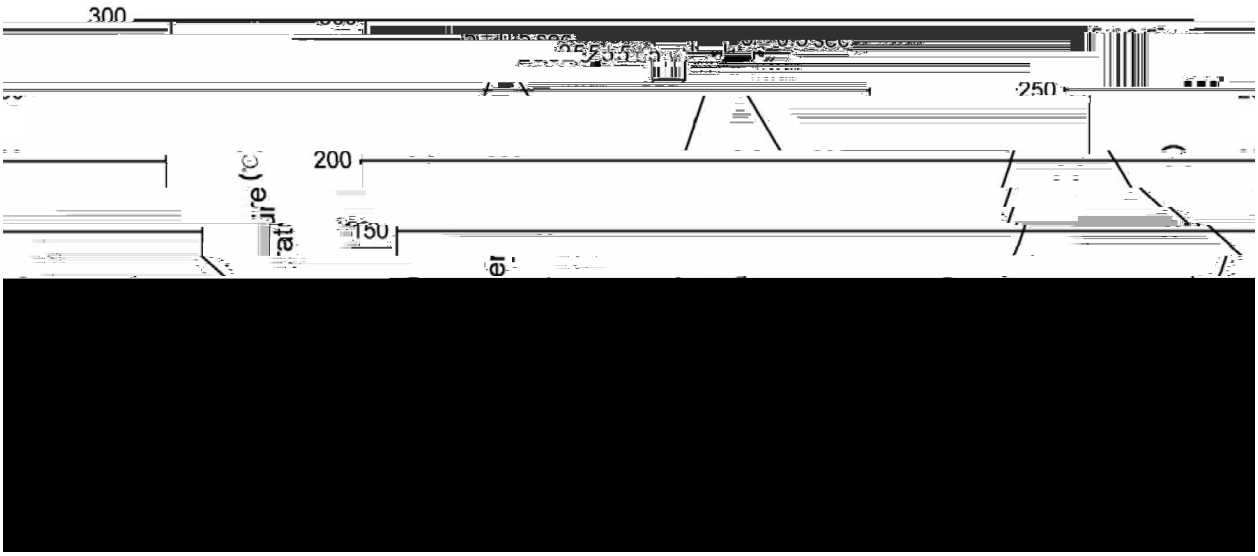
BR: Company Code.

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