



/ Revised record

F	2017-9				
G	2022-1-27	6	A: h_{FE} , A: V_{REF}		

/ Descriptions

TO-92 Voltage Regulator in a TO-92 Plastic Package.

/ Features

1.240V 0.5% 1% 100uA 100mA
 $V_O = V_{ref}$ 20V (:55μA) (:0.05Ω)

Precise reference voltage to 1.240V, guaranteed 0.5%, 1% ,reference voltage Tolerance, sink current capability, 100uA~100mA, quick turn-on, adjustable output voltage, $V_O = V_{ref} \sim 20V$, low operational cathode current, 55μA typical, 0.05Ω typical output impedance.

/ Applications

Linear regulators, adjustable power supply, switching power supply.

/ Equivalent Circuit



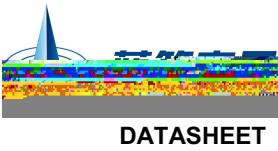
/ Pinning



PIN1 K PIN 2 A PIN 3 R

/ Marking

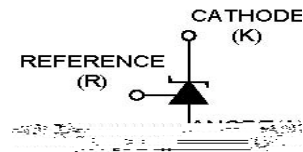
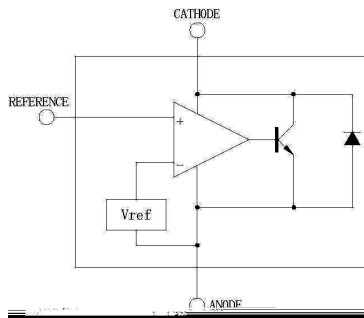
See Marking Instructions



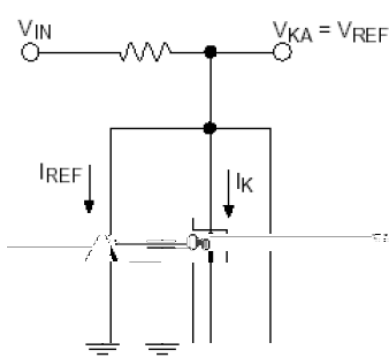
Parameter	Symbol	Rating
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& Test circuits&Typical Application

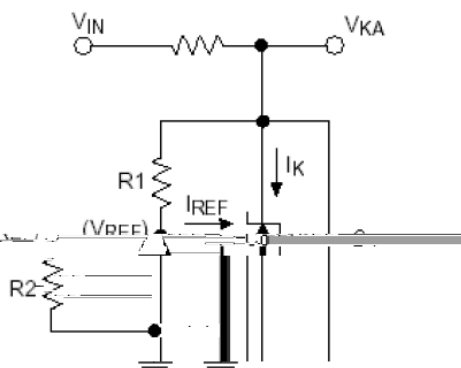
BLOCK DIAGRAM:



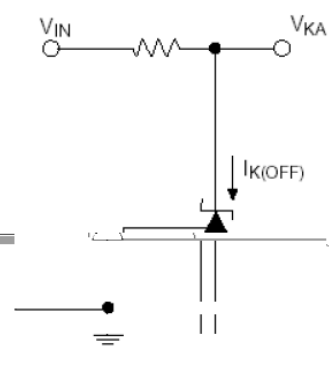
TEST CIRCUITS:



Test Circuit For $V_{KA} = V_{REF}$,
 $C_o = 0.1\mu F$

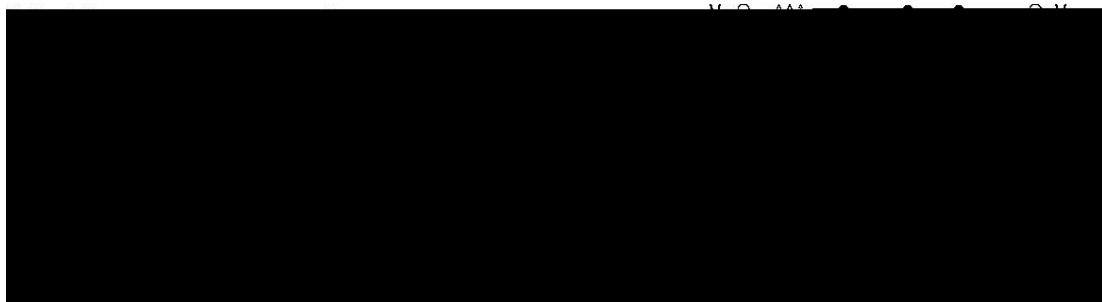


Test Circuit for $V_{KA} \geq V_{REF}$
 $C_o = 0.1\mu F$



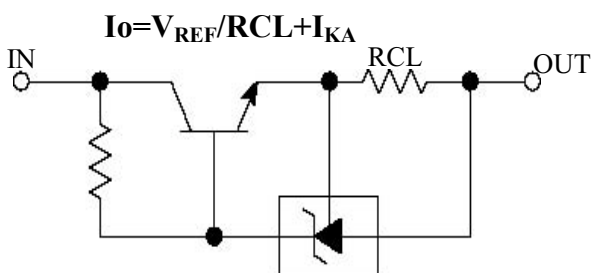
Test Circuit For $I_{KA(OFF)}$

TYPICAL APPLICATIONS:

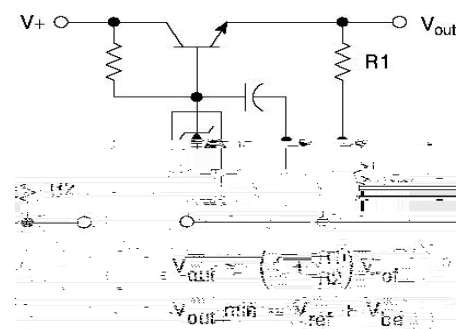


Shutdown Regulator

Higher-current Shunt



Constant Current Source



Series Pass Regulator

/ Electrical Characteristic Curve

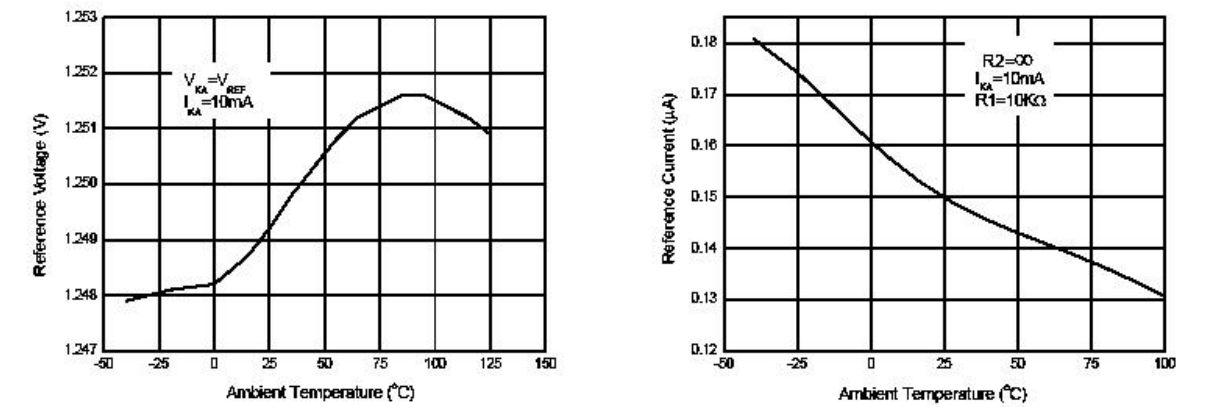
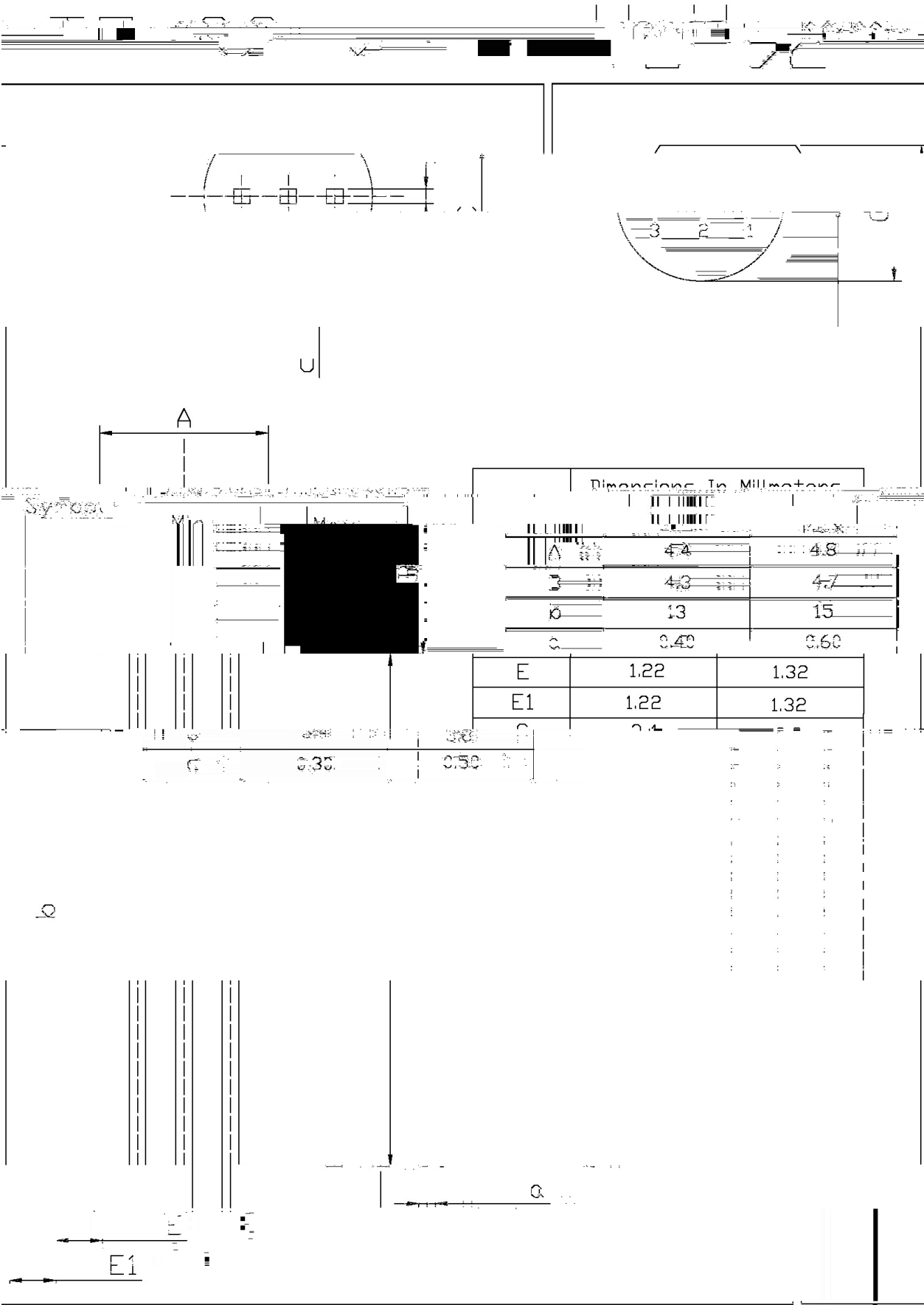


Figure 7. Reference Voltage vs. Ambient Temperature

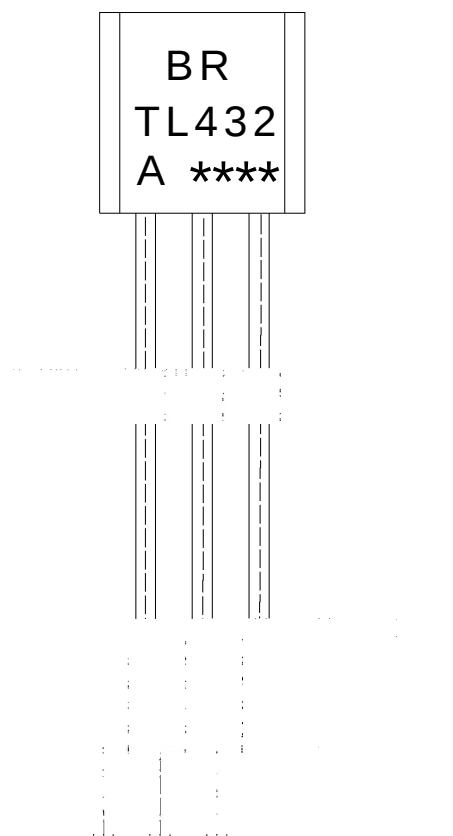
Figure 8. Reference Current vs. Ambient Temperature



/ Package Dimensions



/ Marking Instructions



说明：

BR： 为公司代码

TL432： 为产品型号

A： 为 V_{REF} 分档代码

****： 为生产批号代码，随生产批号变化。

Note:

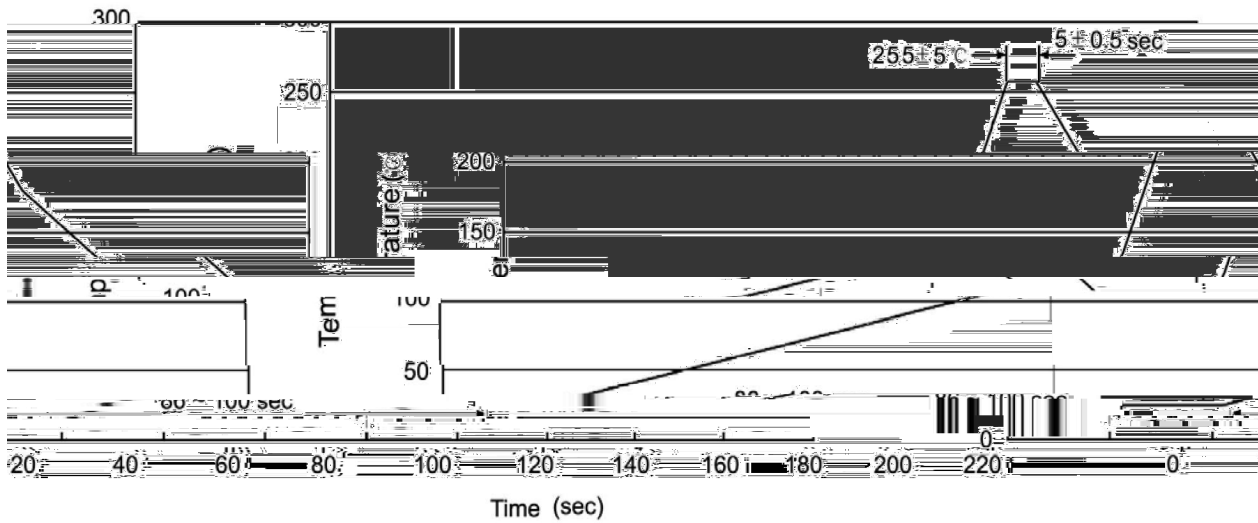
BR: Company Code.

TL432: 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°C, Time:60~90sec. |
| 2 | 255±5 | | 5±0.5sec; | | 2.Peak Temp.:255±5°C, Duration:5±0.5sec. |
| 3 | | 2 | 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

270±5°C 10±1 sec. Temp:270±5°C Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag 袋	Inner Box 盒	Outer Box 箱
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	Units/tape /	Tape/Inner Box /	Rows/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Inner Box 盒	Outer Box 箱
TO-92	3,000	1	120	10	30,000	328×230×42	小箱 480×346×235, 大箱 547×407×268

/ Notices