

/ Revised record

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/ Descriptions

Precision adjustable shunt regulator in a SOT-23 Plastic Package.

/ Features

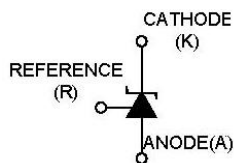
O ref

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,HF Product.

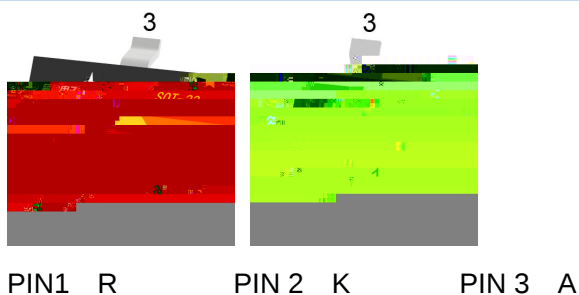
/ Applications

Linear regulators, adjustable power supply, switching power supply.

/ Equivalent Circuit



/ Pinning



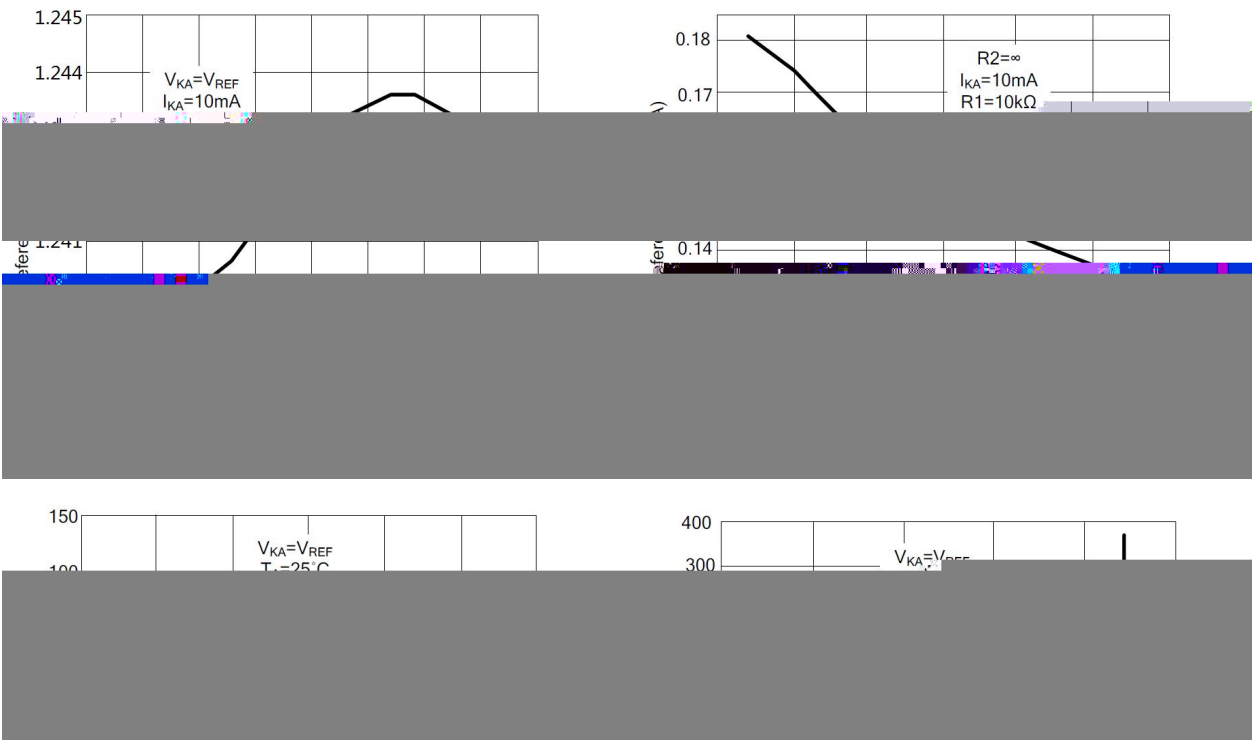
/ Marking

Marking	H432
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Parameter	Symbol	Rating	Unit
Cathode voltage	V_{KA}	20	V
Continuous cathode current range	I_K	-100~+100	mA
Reference current range	I_{REF}	10	mA
Power Dissipation	P_D	370	mW
Ambient temperature range	T_{amb}	-40~125	°C
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-65~150	°C

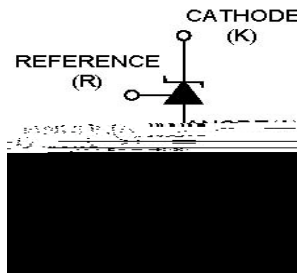
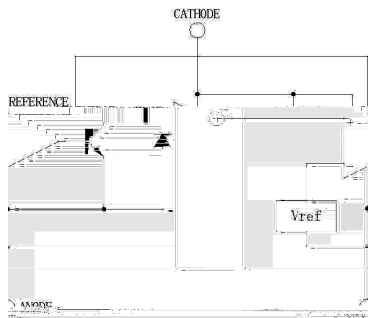
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reference voltage	V_{REF}	$V_{KA}=V_{REF}$ $I_K=10mA(A=0.5\%)$	1.234	1.240	1.246	V
		$V_{KA}=V_{REF}$ $I_K=10mA(B=1\%)$	1.228	1.240	1.252	V
Reference voltage drift over temp. range	$\Delta V_{REF}/T$	$V_{KA}=V_{REF}$ $I_K=10mA$ $T_A=-40\sim 85^{\circ}C$		3	10	mV
Voltage ratio (open loop gain)	$\Delta V_{REF}/\Delta V_{KA}$	$I_K=10mA$ $\Delta V_{KA}=V_{REF}$				

/ Electrical Characteristic Curve

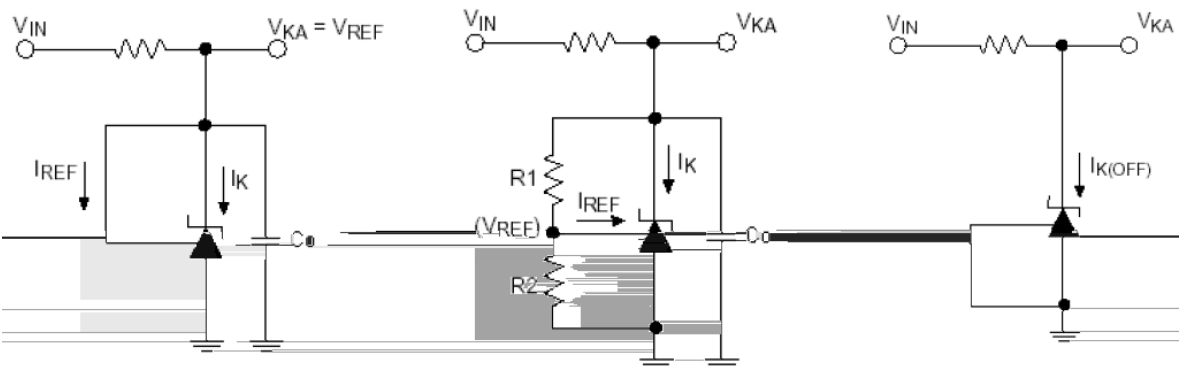


& Test circuits&Typical Application

BLOCK DIAGRAM:



TEST CIRCUITS:

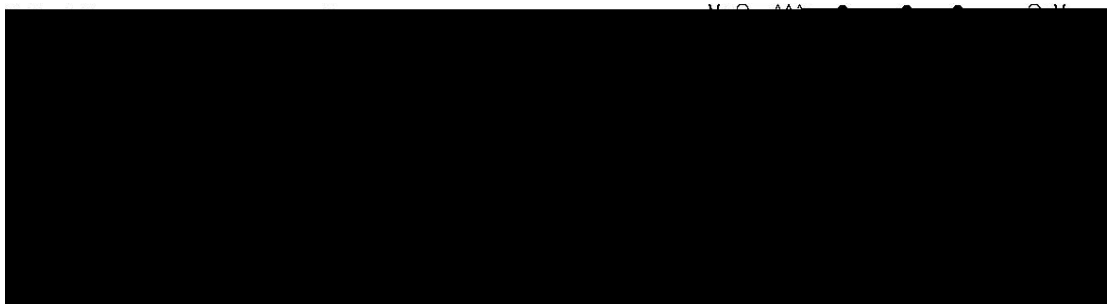


Test Circuit For $V_{KA}=V_{REF}$,
 $C_o=0.1\mu F$

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

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

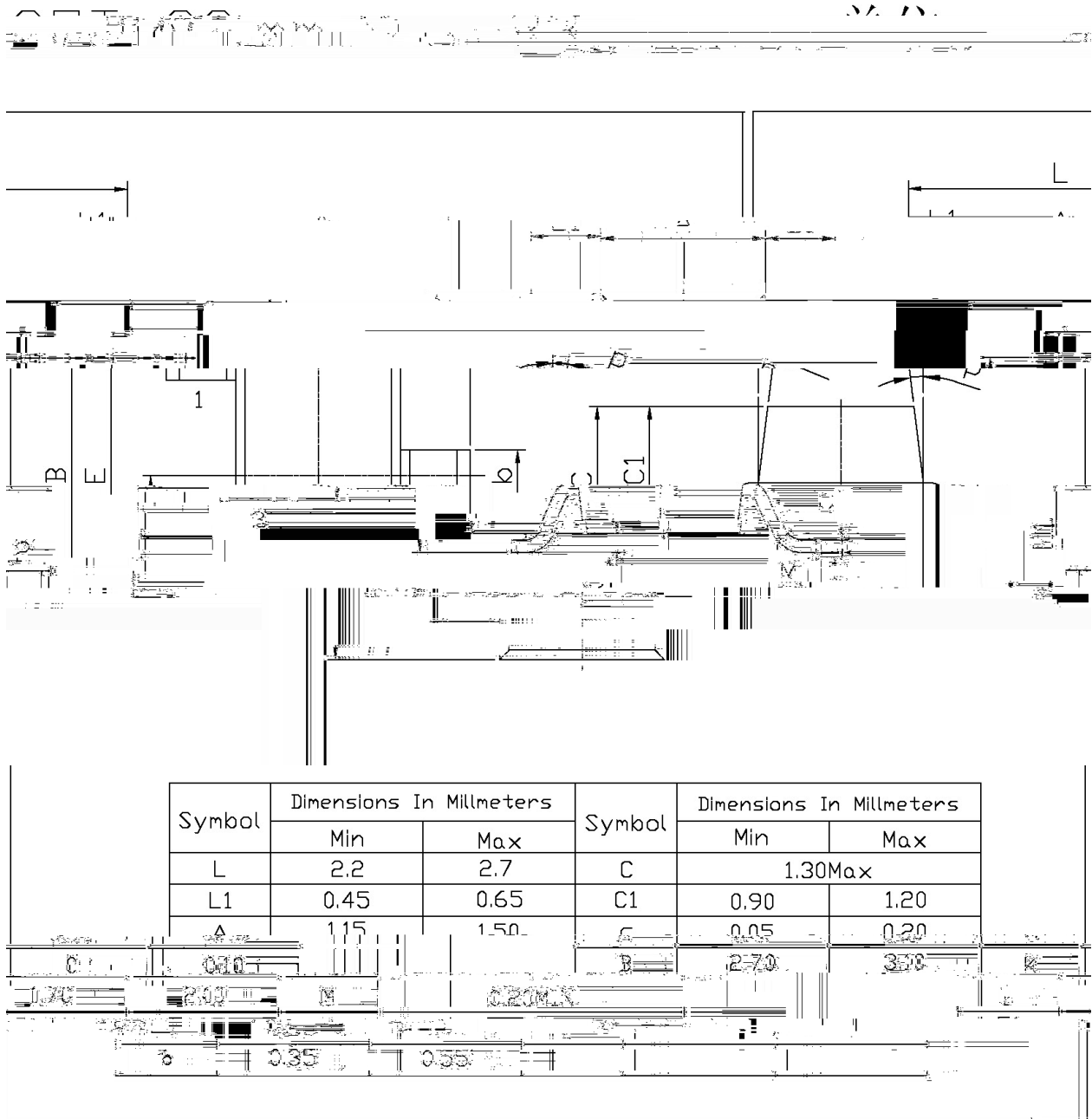
TYPICAL APPLICATIONS:



Shutdown Regulator

Higher-current Shunt

/ Package Dimensions



/ Marking Instructions



说明：

H： 为公司代码

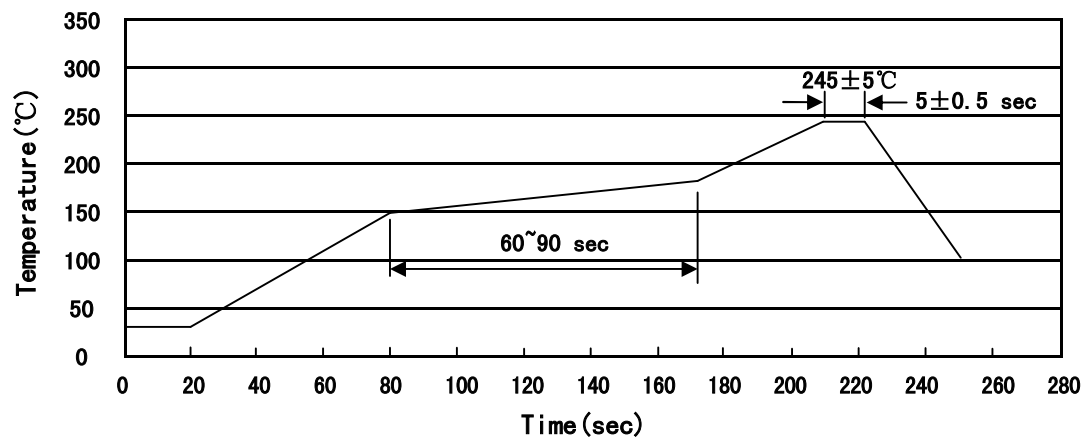
432： 为型号代码

Note:

H: Company Code

432: Product Type

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | |
|---|-------------|-----------|--|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | 2 10°C/sec. | | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5°C Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension		(unit mm ³)
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱			
						"		

/ Notices