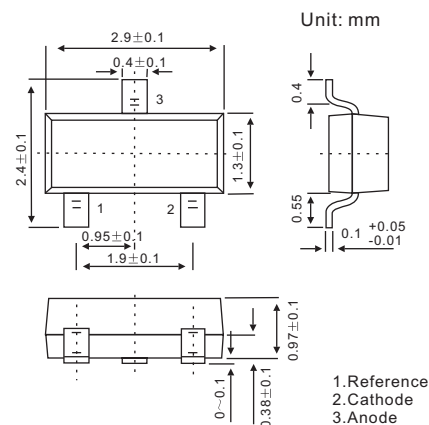


Adjustable Accurate Reference Source

Features

- The output voltage can be adjusted to 36V
- Low dynamic output impedance, its typical value is 0.2Ω
- Trapping current capability is 1 to 100mA
- The typical value of the equivalent temperature factor in the whole temperature scope is $50 \text{ ppm}/^\circ\text{C}$
- The effective temperature compensation in the working range of full temperature
- Low output noise voltage
- Fast on-state response

SOT-23



Absolute Maximum Ratings (Operating temperature range applies unless otherwise specified)

| Parameter | Symbol | Rating | Unit |
|------------------------------------|-----------|-------------|------------------|
| Cathode Voltage | V_{KA} | 37 | V |
| Cathode Current Range (Continuous) | I_{KA} | -100 ~ +150 | mA |
| Reference Input Current Range | I_{REF} | 0.05 ~ +10 | mA |
| Power Dissipation | P_D | 350 | mW |
| Operating Temperature | T_{OPR} | 0 ~ 70 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -65 ~ +150 | $^\circ\text{C}$ |

Electrical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise specified)

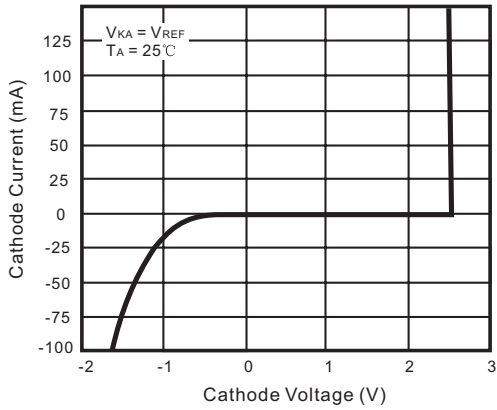
| Parameter | Symbol | Testconditions | Min | Typ | Max | Unit |
|---|--------------------------------|---|------|------|------|---------------|
| Reference Input Voltage | V_{REF} | $V_{KA} = V_{REF}, I_{KA} = 10\text{mA}$ | 2.45 | 2.5 | 2.55 | V |
| Deviation of Reference Input Voltage Over Temperature (*) | $\Delta V_{REF}/\Delta T$ | $V_{KA} = V_{REF}, I_{KA} = 10\text{mA}$ $T_{min} \leq T_a \leq T_{max}$ | | 4.5 | 17 | mV |
| Ratio of Change in Reference Input Voltage to the Change in Cathode Voltage | $\Delta V_{REF}/\Delta V_{KA}$ | $I_{KA} = 10\text{mA}, \Delta V_{KA} = 10\text{V} \sim V_{REF}$ | | -1.0 | -2.7 | mV/V |
| | | $I_{KA} = 10\text{mA}, \Delta V_{KA} = 36\text{V} \sim 10\text{V}$ | | -0.5 | -2.0 | mV/V |
| Reference Input Current | I_{REF} | $I_{KA} = 10\text{mA}, R_1 = 10\text{K}\Omega, R_2 = \infty$ | | 1.5 | 4 | μA |
| Deviation of Reference Input Current Over Full Temperature Range | $\Delta I_{REF}/\Delta T$ | $I_{KA} = 10\text{mA}, R_1 = 10\text{K}\Omega, R_2 = \infty$ $T_A = \text{Full Temperature}$ | | 0.4 | 1.2 | μA |
| Minimum Cathode Current for Regulation | $I_{KA(min)}$ | $V_{KA} = V_{REF}$ | | 0.45 | 1.0 | mA |
| Off-state Cathode Current | $I_{KA(OFF)}$ | $V_{KA} = 36\text{V}, V_{REF} = 0$ | | 0.05 | 1.0 | μA |
| Dynamic Impedance | Z_{KA} | $V_{KA} = V_{REF}, I_{KA} = 1 \text{ to } 100\text{mA}, f \leq 1.0\text{KHz}$ | | 0.15 | 0.5 | Ω |

* $T_{MIN} = 0^\circ\text{C}, T_{MAX} = +70^\circ\text{C}$

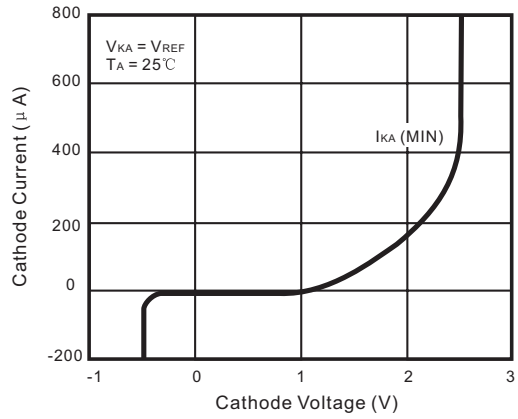
Classification Of V_{REF}

| Rank | 0.5% | 1% | 2% |
|-------|---------------|---------------|---------------|
| Range | 2.487 ~ 2.512 | 2.475 ~ 2.525 | 2.450 ~ 2.550 |

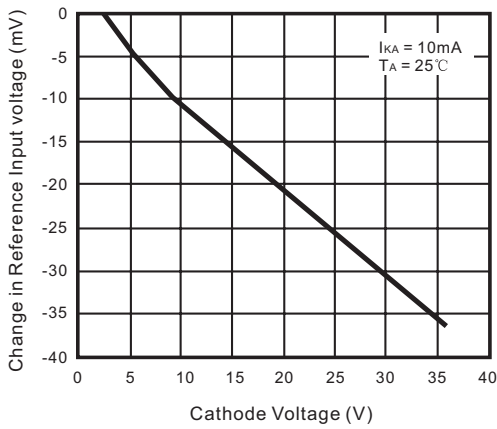
Typical Characteristics



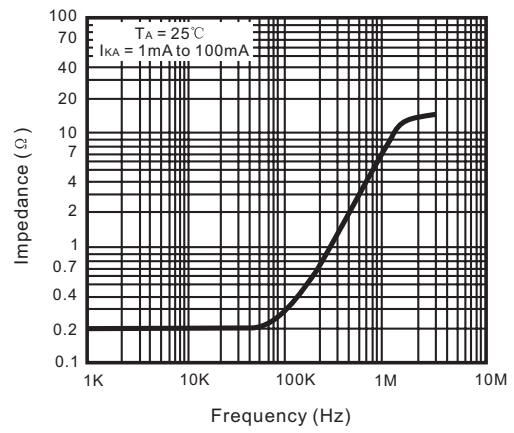
Cathode Current vs. Cathode Voltage



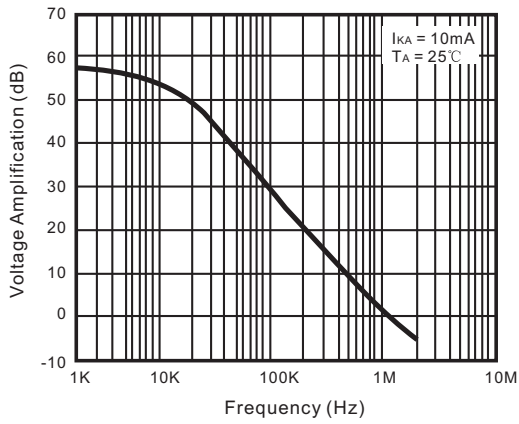
Cathode Current vs. Cathode Voltage



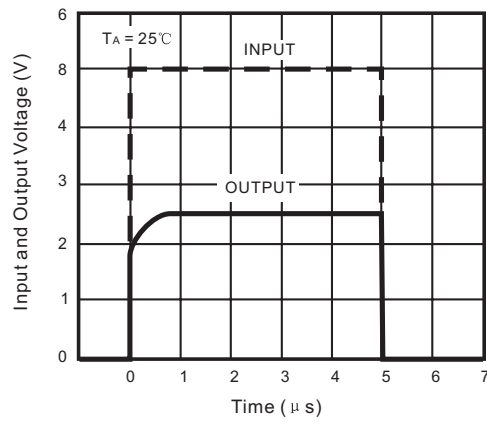
Change in Reference Input Voltage vs. Cathode Voltage



Dynamic Impedance Frequency



Small Signal Voltage Amplification vs. Frequency



Pulse Response

单击下面可查看定价，库存，交付和生命周期等信息

[>>Slkor\(萨科微\)](#)