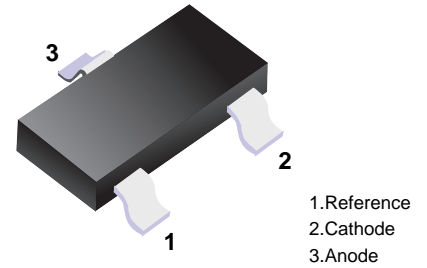


■ Adjustable Accurate Reference Source

■ 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 ppm/°C
- The effective temperature compensation in the working range of full temperature
- Low output noise voltage
- Fast on-state response



■ Simplified outline(SOT-23)

■ Classification Of VREF

Rank	0.3%	0.5%	1%	2%
Range	2.493~2.508	2.487~2.512	2.475~2.525	2.450~2.550

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

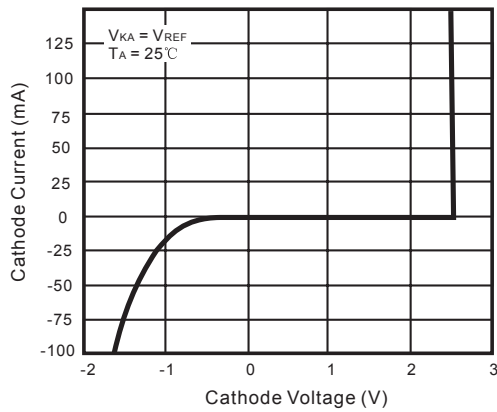
Parameter	Symbol	Rating	Unit
Cathode Voltage	VKA	37	V
Cathode Current Range (Continuous)	IKA	-100 ~ +150	mA
Reference Input Current Range	IREF	0.05 ~ +10	mA
Power Dissipation	PD	350	mW
Operating Temperature	TOPR	0 ~ 70	°C
Storage Temperature Range	TSTG	-65 ~ +150	°C

■ Electrical Characteristics (Ta = 25°C unless otherwise specified)

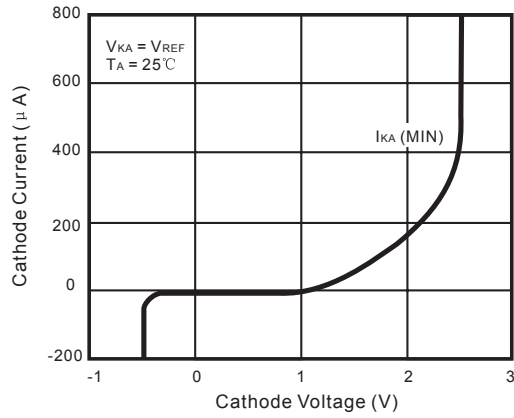
Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Reference Input Voltage	VREF	VKA = VREF , IKA = 10mA	2.45	2.5	2.55	V
Deviation of Reference Input Voltage Over Temperature (*)	$\Delta V_{REF}/\Delta T$	VKA = VREF , IKA = 10mA Tmin ≤ Ta ≤ Tmax		4.5	17	mV
Ratio of Change in Reference Input Voltage to the Change in Cathode Voltage	$\Delta V_{REF}/\Delta V_{KA}$	IKA = 10mA , $\Delta V_{KA} = 10V \sim V_{REF}$ IKA = 10mA , $\Delta V_{KA} = 36V \sim 10V$		-1.0	-2.7	mV/V
Reference Input Current	IREF	IKA = 10mA , R1 = 10KΩ , R2 = ∞		1.5	4	μA
Deviation of Reference Input Current Over Full Temperature Range	$\Delta I_{REF}/\Delta T$	IKA = 10mA , R1 = 10KΩ , R2 = ∞ TA = Full Temperature		0.4	1.2	μA
Minimum Cathode Current for Regulation	IKA(min)	VKA = VREF		0.45	1.0	mA
Off-state Cathode Current	IKA(OFF)	VKA = 36V , VREF = 0		0.05	1.0	μA
Dynamic Impedance	ZKA	VKA = VREF , IKA = 1 to 100mA, f ≤ 1.0KHz		0.15	0.5	Ω

* TMIN = 0°C , TMAX = +70°C

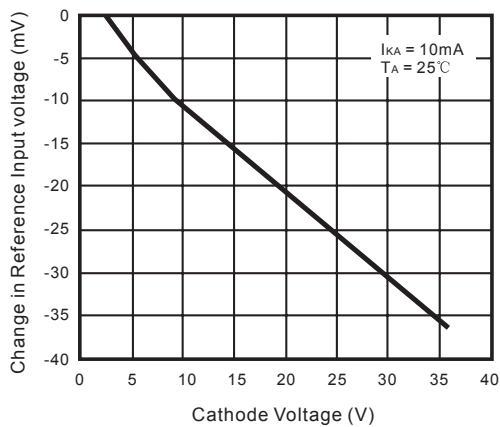
■ Typical Characteristics



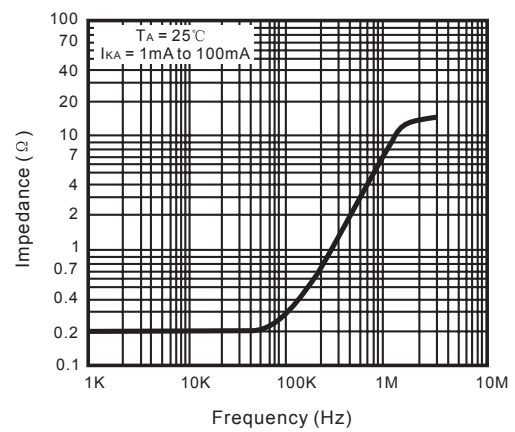
Cathode Current vs. Cathode Voltage



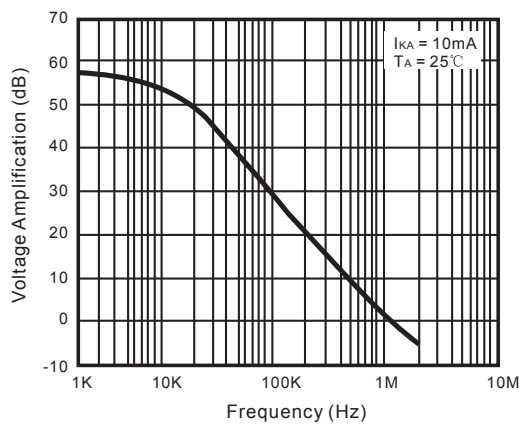
Cathode Current vs. Cathode Voltage



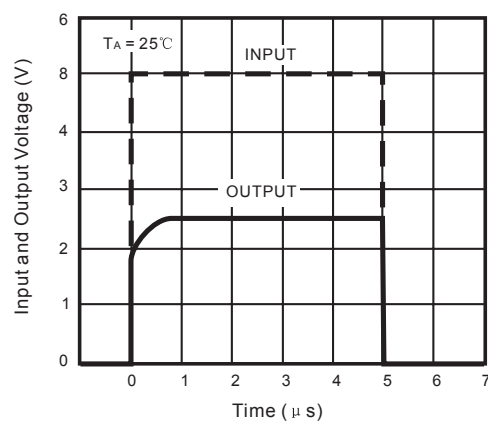
Change in Reference Input Voltage vs. Cathode Voltage



Dynamic Impedance Frequency



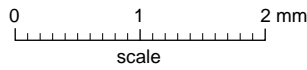
Small Signal Voltage Amplification vs. Frequency



Pulse Response

Package Outline

SOT-23



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max.	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SOT-23	Tape/Reel, 7" reel	3000	EIA-481-1

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)