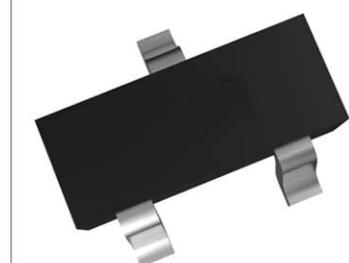
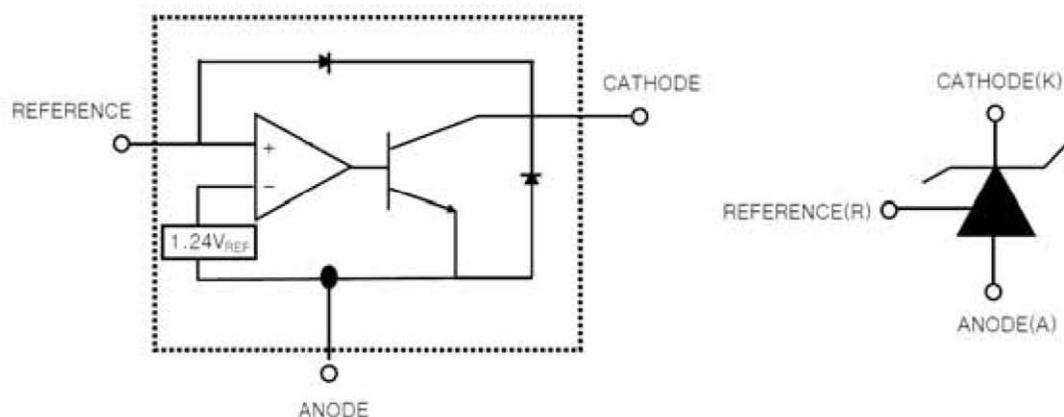


● Features

- Low Voltage Operation : 1.24 V
- Programmable Out Voltage to 15V
- Sink Current Capability of 1 mA to 100 mA
- Equivalent Full-Range Temperature Coefficient of 50ppm/°C
- Temperature Compensated for Operation over Full Rated Operating Temperature Range
- Trimmed Bandgap to 5%
- Reference Input Voltage: $1.24 + 0.5\%$

SOT-23

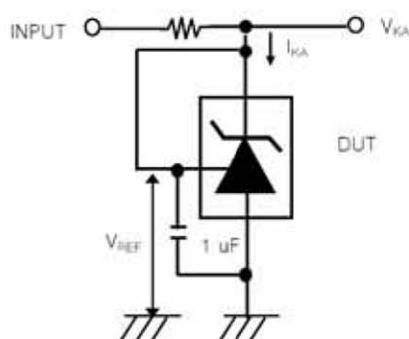
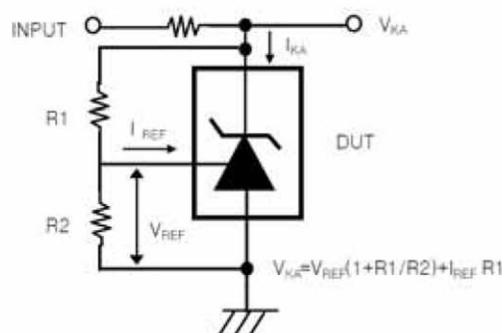
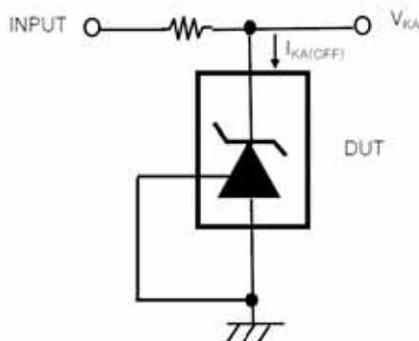

Function Block Diagram

● Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Cathode Voltage	V _{KA}	15	V
Continuous Cathode Current Range	I _{KA}	100	mA
Reference Input Current Range	I _{REF}	-0.05 to 3	mA
Total Power Dissipation	P _D	370	mW
Junction Temperature	T _J	-40 to 150	°C
Operating Temperature	T _{OPR}	0 to 70	°C
Storage Temperature	T _{STG}	-65 to 150	°C

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● Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Reference Input Voltage	V_{ref}	$V_{KA}=V_{REF}, I_{KA}=10mA$	1.233	1.24	1.247	V
Deviation of reference Input Voltage Over Full Temperature Range	$\Delta V_{ref}/\Delta T$	$V_{KA}=V_{REF}, I_{KA}=10mA$	10	25	mV	
		TA=Full Range				
Ratio Of Change in Reference Input Voltage to the change in Cathode Voltage	$\Delta V_{ref}/\Delta V_{KA}$	$V_{KA}=1.25V$ to $14.5V$	1.0	2.7	10	mV/V
Reference input Current	I_{ref}	$R_1=10K\Omega, R_2=\infty$	0.5	1	10	μA
Deviation Of Reference Input Current Over Full Temperature Range	$\Delta I_{ref}/\Delta T$	$R_1=10K\Omega, R_2=\infty$ TA=fullTemperature	0.05	0.3	10	μA
Minimum cathode current for regulation	$I_{KA(min)}$	$V_{KA}= V_{REF}$	60	80	100	μA
Off-state cathode Current	$I_{KA(OFF)}$	$V_{KA}=15V, V_{REF}=0$	0.04	0.5	10	μA
Dynamic impedance	Z_{KA}	$V_{KA}=V_{REF}, I_{KA}=0.1$ to $20mA$ $f \leq 1.0KHz$	0.2	0.4	10	Ω

Fig. 1 Test Circuit for $V_{KA}=V_{REF}$

Fig. 2 Test Circuit for $V_{KA} \geq V_{REF}$

Fig. 3 Test Circuit for I_{KA} (off)

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