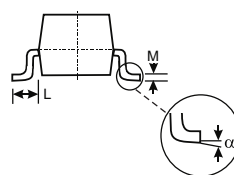
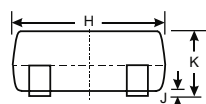
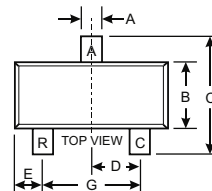


Features

- Low Dynamic Output Impedance.
- The Effective Temperature Compensation In the Working Range Of Temperature.
- Sink Current Capability of 0.1 mA to 100 mA.
- Low Output Noise Voltage.
- Marking Code:432

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Value	Unit
Cathode Voltage	V_{KA}	20	V
Cathode Current Range	I_{KA}	100	mA
Reference Input Current Range	I_{REF}	10	μA
Power Dissipation	P_D	350	mW
Operating Temperature Range	T_{opr}	-40 to 125	$^\circ\text{C}$
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$



SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	0.903	1.10
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

SYMBOL



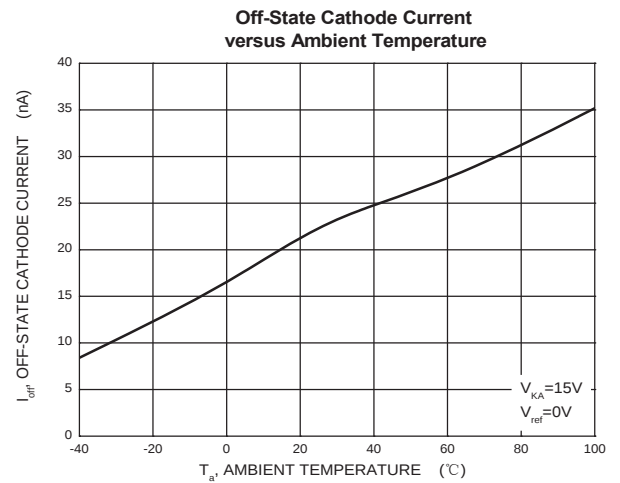
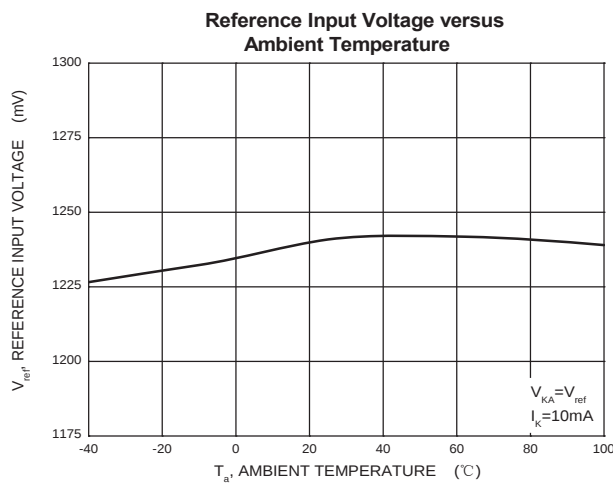
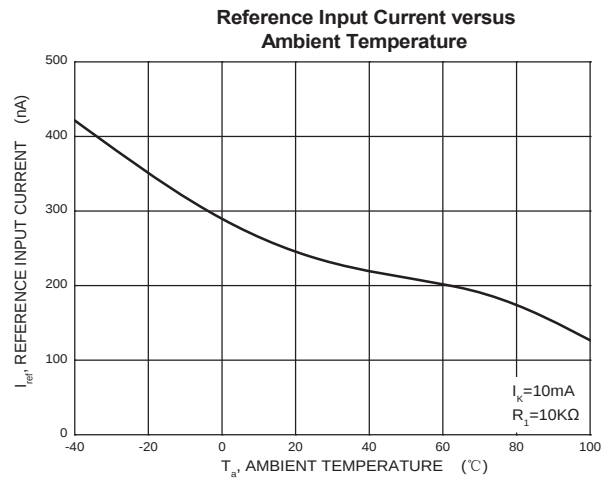
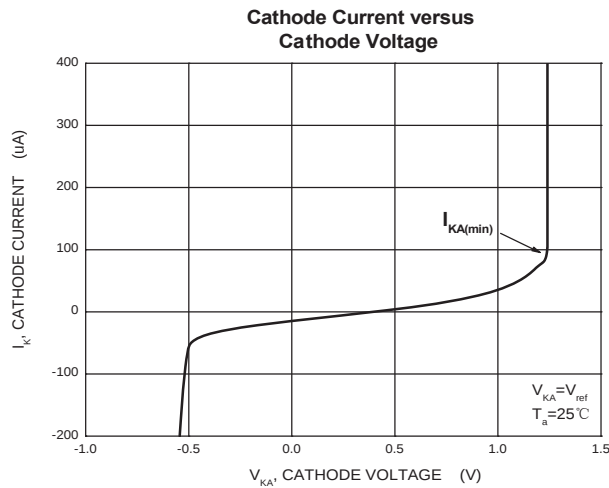
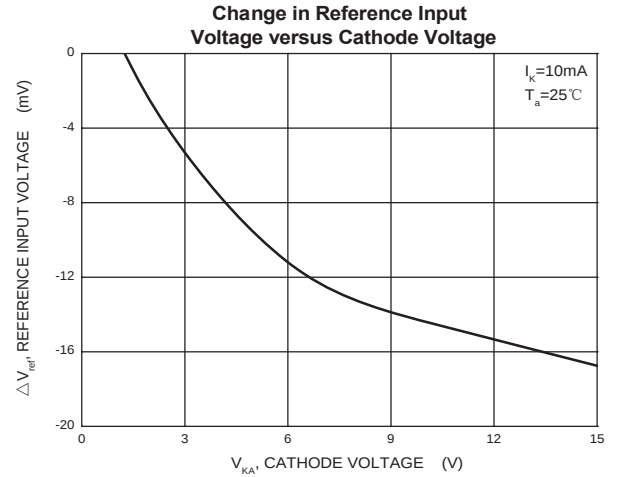
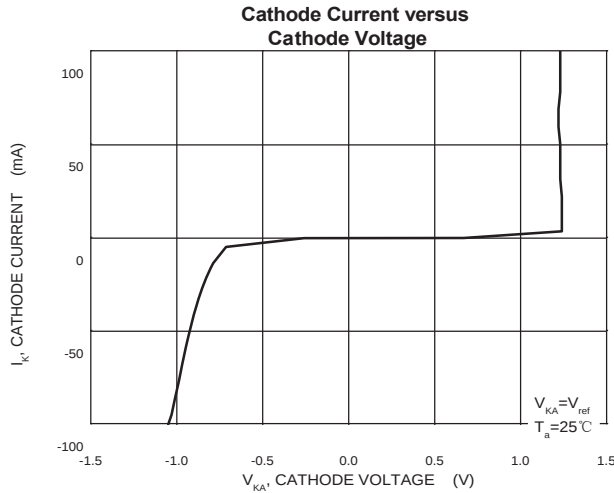
Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reference input voltage (Fig 1)	V_{ref}	$V_{KA}=V_{REF}$, $I_{KA}=10\text{mA}$	1.228	1.240	1.252	V
Deviation of reference voltage over full temperature range (Fig 1)	$\Delta V_{ref(DEV)}$	$V_{KA}=V_{REF}$, $I_{KA}=10\text{mA}$ $0^\circ\text{C} \leq T_A \leq 70^\circ\text{C}$			16	mV
Ratio of change in reference input voltage to the change in cathode voltage (Fig 2)	$\Delta V_{ref}/\Delta V_{KA}$	$I_{KA}=10\text{mA}$, $\Delta V_{KA}=1.24\text{V} \sim 16\text{V}$			-1.5	mV/V
Deviation of reference input current over full temperature range (Fig 2)	$\Delta I_{ref}/\Delta T$	$I_{KA}=10\text{mA}$, $R_1=10\text{k}\Omega$, $R_2=\infty$, $0^\circ\text{C} \leq T_A \leq 70^\circ\text{C}$			0.6	μA
Minimum cathode current for regulation (Fig 1)	$I_{KA(min)}$	$V_{KA}=V_{REF}$			0.1	mA
Off-state cathode current(Fig 3)	I_{off}	$V_{KA}=18\text{V}$, $V_{REF}=0$			0.5	μA
Dynamic impedance	Z_{KA}	$V_{KA}=V_{REF}$, $I_{KA}=1 \sim 100\text{mA}$, $f \leq 1.0\text{kHz}$			0.15	Ω

CLASSIFICATION OF V_{ref}

Rank	0.5%	1.0%
Range	1.234~1.246	1.228~1.252

TYPICAL TRANSIENT CHARACTERISTICS



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