



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23-3L Encapsulate Adjustable Reference Source**CJ431 Adjustable Accurate Reference Source****FEATURES**

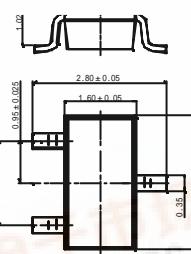
- The output voltage can be adjusted to 36V
 Low dynamic output impedance ,its typical value is 0.2
 Trapping current capability is 1 to 100mA
 The typical value of the equivalent temperature factor in the whole temperature scope is 50 ppm/
 The effective temperature compensation in the working range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

SOT-23-3L

1. REFERENCE



2. CATHODE



3. ANODE

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

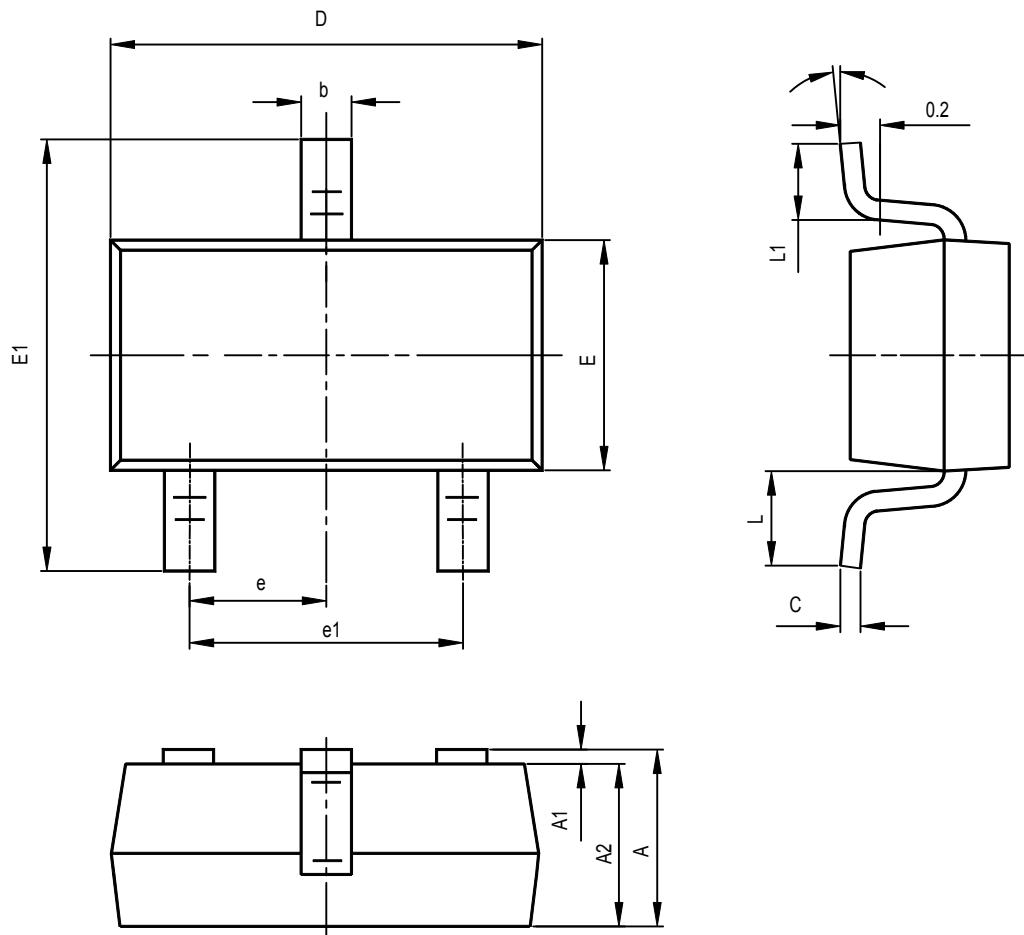
Parameter	SYMBOL	VALUE	UNITS
Cathode Voltage	V _{KA}	37	V
Cathode Current Range(Continuous)	I _{KA}	-100~+150	mA
Reference Input Current Range	I _{ref}	0.05~+10	mA
Power Dissipation	P _D	350	mW
Operating temperature	T _{opr}	0~70	
Storage temperature Range	T _{stg}	-55~+150	

ELECTRICAL CHARACTERISTICS (Tamb=25 unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT	
Reference Input Voltage	V _{ref}	V _{KA} =V _{REF} , I _{KA} =10mA	2.440	2.495	2.550	V	
Deviation of reference input Voltage Over temperature (note)	V _{ref} / T	V _{KA} =V _{REF} , I _{KA} =10mA Tmin Ta Tmax		4.5	17	mV	
Ratio Of Change in Reference Input Voltage to the change in Cathode Voltage	V _{ref} / V _{KA}	I _{KA} =10mA	V _{KA} =10V ~ V _{REF}		-1.0	-2.7	m V/V
			V _{KA} =36V ~ 10V		-0.5	-2.0	
Reference Input Current	I _{ref}	I _{KA} = 10mA,R ₁ =10K R ₂ =		1.5	0.5	μ A	
Deviation Of Reference Input Current Over Full Temperature Range	I _{ref} / T	I _{KA} =10mA, R ₁ =10K R ₂ = T _A =full Temperature		0.4	1.2	μ A	
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} =36V ,V _{REF} =0		0.05	1.0	μ A	
Dynamic Impedance	Z _{KA}	V _{KA} =V _{REF} ,I _{KA} =1 to 100mA f 1.0KHz		0.15	0.5		

Note : T_{MIN}=0 ,T_{MAX}=+70

SOT-23-3L PACKAGE OUTLINE DIMENSIONS



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.400	0.012	0.016
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E	1.500	1.700	0.059	0.067
E1	2.650	2.950	0.104	0.116
e	0.950TPY		0.037TPY	
e1	1.800	2.000	0.071	0.079
L	0.700REF		0.028REF	
L1	0.300	0.600	0.012	0.024
θ	0°	8°	0°	8°