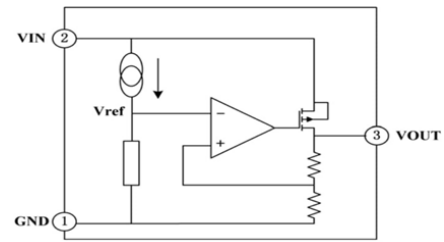


Features

- Low power consumption
- Low voltage drop
- Low temperature coefficient
- High input voltage (up to 24V)
- Ultra low quiescent current: 1.5 μ A(typ.)
- Output voltage accuracy: tolerance $\pm 2\%$
- Output current: 100mA(typ.)

HF

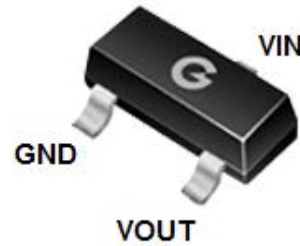


Typical Applications

- Battery-powered equipment
- Audio/Video equipment
- Communication equipment

Mechanical Data

- Case: SOT-23-3L
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208



SOT-23-3L

Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
BL7550-3L	SOT-23-3L	3000 pcs / Tape & Reel	7550

Maximum Ratings

 (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Supply Voltage	V_{IN}	-0.3 ~ +24	V

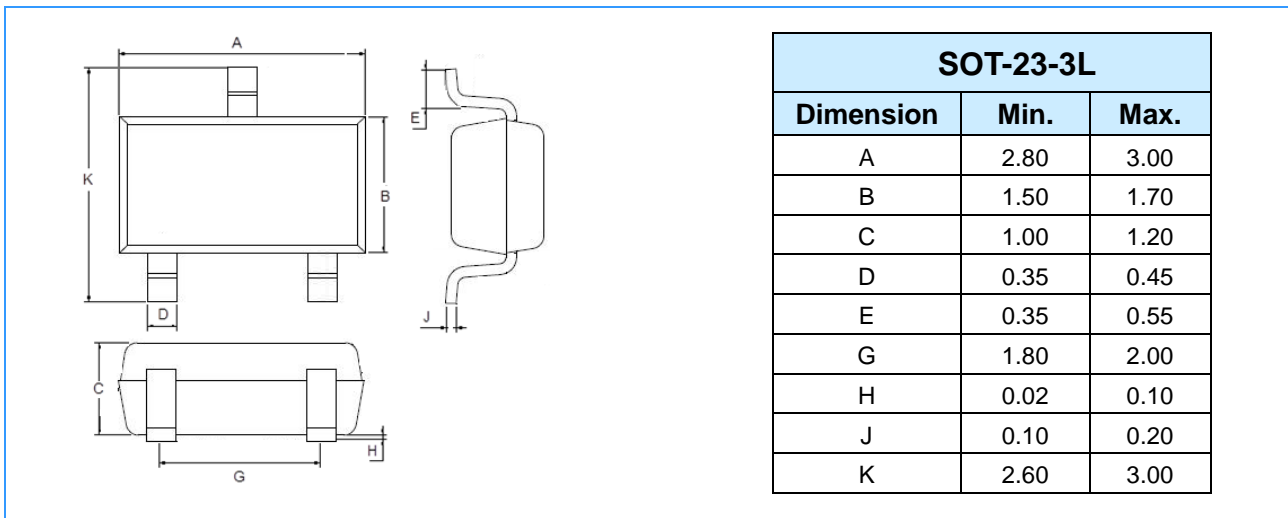
Thermal Characteristics

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	0.2	W
Thermal Resistance Junction-to-Air	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Operating Temperature Range	T_J	-40 ~ +85	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-50 ~ +125	$^\circ\text{C}$

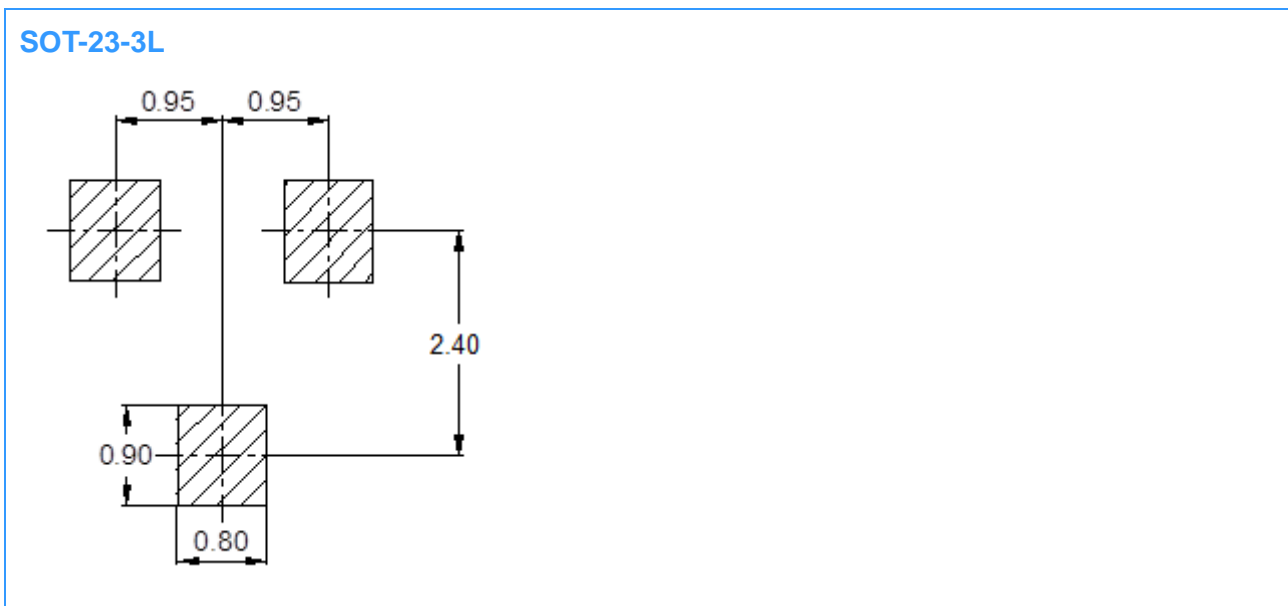
Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output Voltage	V_{OUT}	$V_{IN} = V_{OUT} + 2.0V$, $I_{OUT} = 10\text{mA}$	4.9	5.0	5.1	V
Output Current	I_{OUT}	$V_{IN} = V_{OUT} + 2.0V$	-	100	-	mA
Load Regulation	ΔV_{OUT}	$V_{IN} = V_{OUT} + 2.0V$ $1\text{ mA} \leq I_{OUT} \leq 70\text{ mA}$	-	25	60	mV
Voltage Drop	V_{DIF}	$I_{OUT} = 1\text{mA}$, $\Delta V_{OUT} = 2\%$	-	100	-	mV
Current Consumption	I_{SS}	No Load	-	1.5	3	μA
Line Regulation	$\Delta V_{OUT}/(\Delta V_{IN} \cdot V_{OUT})$	$V_{OUT} + 1V \leq V_{IN} \leq 24V$ $I_{OUT} = 1\text{mA}$	-	-	0.2	%/V
Input Voltage	V_{IN}	-	-	-	24	V
Temperature Coefficient	$\Delta V_{OUT}/(\Delta T_A \cdot V_{OUT})$	$V_{IN} = V_{OUT} + 2.0V$, $I_{OUT} = 10\text{mA}$ $-40^\circ\text{C} \leq T_A \leq 85^\circ\text{C}$	-	100	-	ppm/ $^\circ\text{C}$

Package Outline Dimensions (Unit: mm)



Package Outline Dimensions (Unit: mm)



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