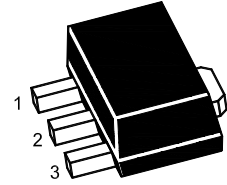


3-Terminal Positive Voltage Regulator



1.OUT 2.GND 3.IN
SOT-89 Plastic Package

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

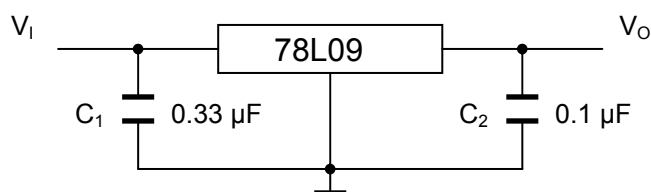
Parameter	Symbol	Value	Unit
Input Voltage	V_I	35	V
Power Dissipation	P_{tot}	800 ¹⁾	mW
Operating Temperature	T_{opr}	- 20 to + 120	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

¹⁾ 15 mm X 25 mm X 0.7 mm alumina ceramic board, $T_a \leq 25\text{ }^\circ\text{C}$

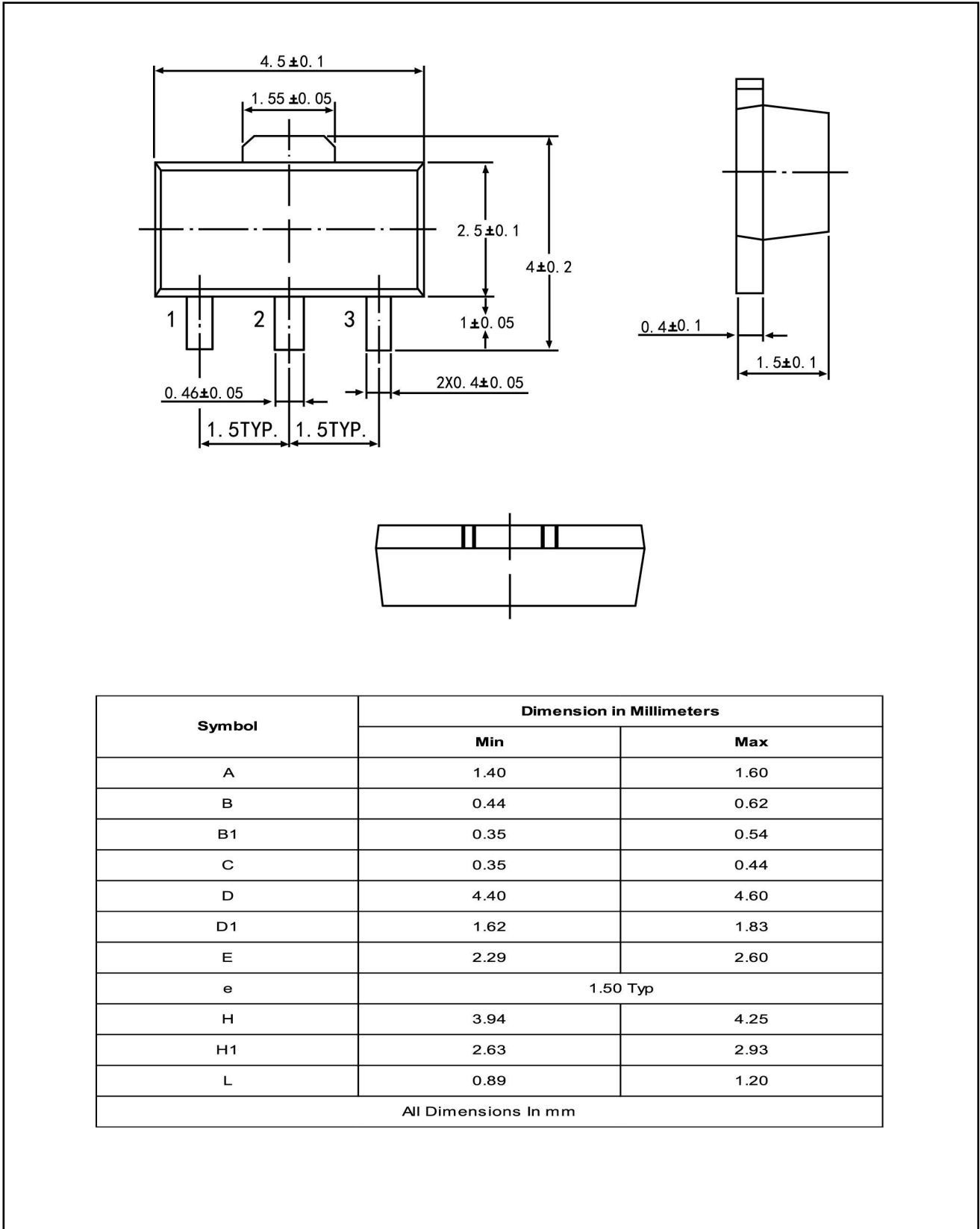
Electrical Characteristics ($T_a = 25\text{ }^\circ\text{C}$)

(Unless otherwise specified, $0\text{ }^\circ\text{C} \leq T_J \leq 125\text{ }^\circ\text{C}$, $V_I = 15\text{ V}$, $I_O = 40\text{ mA}$, $C_1 = 0.33\text{ }\mu\text{F}$, $C_2 = 0.1\text{ }\mu\text{F}$)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Output Voltage	V_O	$T_j = 25\text{ }^\circ\text{C}$	8.64	9	9.36	V
		$11.4\text{ V} \leq V_I \leq 24\text{ V}$, $1\text{ mA} \leq I_O \leq 40\text{ mA}$	8.55	-	9.45	V
		$V_I = 15\text{ V}$, $1\text{ mA} \leq I_O \leq 70\text{ mA}$	8.55	-	9.45	V
Line Regulation	Regline	$11.4\text{ V} \leq V_I \leq 24\text{ V}$, $T_j = 25\text{ }^\circ\text{C}$	-	-	200	mV
		$12\text{ V} \leq V_I \leq 24\text{ V}$, $T_j = 25\text{ }^\circ\text{C}$	-	-	160	
Load Regulation	Regload	$1\text{ mA} \leq I_O \leq 100\text{ mA}$, $T_j = 25\text{ }^\circ\text{C}$	-	-	90	mV
		$1\text{ mA} \leq I_O \leq 40\text{ mA}$, $T_j = 25\text{ }^\circ\text{C}$	-	-	45	
Quiescent Current	I_Q	$T_j = 25\text{ }^\circ\text{C}$	-	-	6	mA
Quiescent Current Change	ΔI_Q	$12\text{ V} \leq V_I \leq 24\text{ V}$, $I_O = 40\text{ mA}$	-	-	1.5	mA
		$V_I = 15\text{ V}$, $1\text{ mA} \leq I_O \leq 40\text{ mA}$	-	-	0.1	
Output Noise Voltage	V_N	$10\text{ Hz} \leq f \leq 100\text{ KHz}$, $T_j = 25\text{ }^\circ\text{C}$	-	70	-	μV
Ripple Rejection	RR	$f = 120\text{ Hz}$, $12\text{ V} \leq V_I \leq 24\text{ V}$, $T_j = 25\text{ }^\circ\text{C}$	38	-	-	dB
Dropout Voltage	V_{Drop}	$T_j = 25\text{ }^\circ\text{C}$	-	1.7	-	V



SOT-89 PACKAGE OUTLINE



Symbol	Dimension in Millimeters	
	Min	Max
A	1.40	1.60
B	0.44	0.62
B1	0.35	0.54
C	0.35	0.44
D	4.40	4.60
D1	1.62	1.83
E	2.29	2.60
e	1.50 Typ	
H	3.94	4.25
H1	2.63	2.93
L	0.89	1.20
All Dimensions In mm		

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