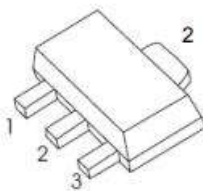
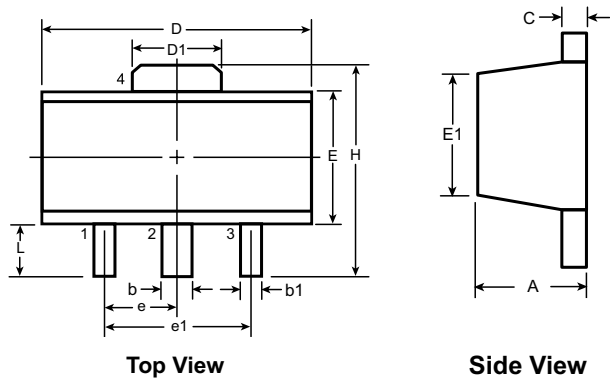


■ Features

- Maximum Output current I_{OM} : 0.1 A
- Output voltage V_O : -12 V
- Continuous total dissipation P_D : 0.5 W



SOT-89 PACKAGE OUTLINE



Symbol	A	b	b1	C	D	D1	E	E1	e	e1	H	L
Dimensions (mm)	MIN	1.40	0.44	0.36	0.3	4.40	1.50	2.29	2.00*	1.50 BSC	3.94	0.89
	NOM	-	-	-	-	-	-	-	-	3.00 BSC	-	-
	MAX	1.60	0.56	0.48	0.5	4.60	1.75	2.60	2.29	-	4.25	1.20

Dimensions in mm

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

Parameter	Symbol	Rating	Unit
Input Voltage	V_I	-35	V
Operating Junction Temperature Range	T_{OPR}	-55 to +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

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■ Electrical Characteristics ($V_i=19V, I_o=40mA, 0^{\circ}C < T_j < 125^{\circ}C, C_1=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Output voltage	V_o	$T_j=25^{\circ}C$	-11.5	-12	-12.5	V
		$-14.5V \leq V_i \leq -27V, I_o=1mA-40mA$	-11.4	-12	-12.6	V
		$I_o=1mA-70mA$	-11.4	-12	-12.6	V
Load Regulation	ΔV_o	$T_j=25^{\circ}C, I_o=1mA \text{ to } 100mA$		24	100	mV
		$T_j=25^{\circ}C, I_o=1mA \text{ to } 40mA$		15	50	mV
Line regulation	ΔV_o	$-14.5V \leq V_i \leq -27V, T_j=25^{\circ}C$		50	250	mV
		$-16V \leq V_i \leq -27V, T_j=25^{\circ}C$		40	200	mV
Quiescent Current	I_q	$25^{\circ}C$			6.5	mA
Quiescent Current Change	ΔI_q	$0^{\circ}C < T_j < 125^{\circ}C, -16V \leq V_i \leq -27V$			1.5	mA
	ΔI_q	$0^{\circ}C < T_j < 125^{\circ}C, 1mA \leq I_o \leq 40mA$			0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz, T_j=25^{\circ}C$		80		uV
Ripple Rejection	RR	$-15V \leq V_i \leq -25V, f=120Hz$	37	42		dB
Dropout Voltage	V_d	$T_j=25^{\circ}C$		1.7		V

■ Typical Application

