

Encapsulate Three Terminal Voltage Regulators

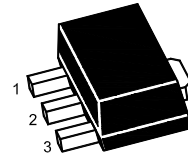
Three-terminal negative voltage regulator

FEATURES

- Maximum output current
 $I_{OM}: 0.1A$
- Output voltage
 $V_o: -5V$
- Continuous total dissipation
 $P_D: 0.5W$

SOT-89 Plastic Package

1. GND
2. IN
3. OUT



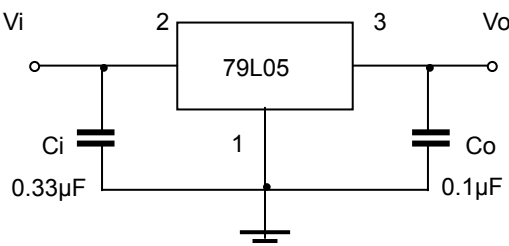
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_i	-30	V
Operating Junction Temperature Range	T_{OPR}	0~+150	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i = -10V, I_o = 40mA, C_i = 0.33\mu F, C_o = 0.1\mu F$, unless otherwise specified)

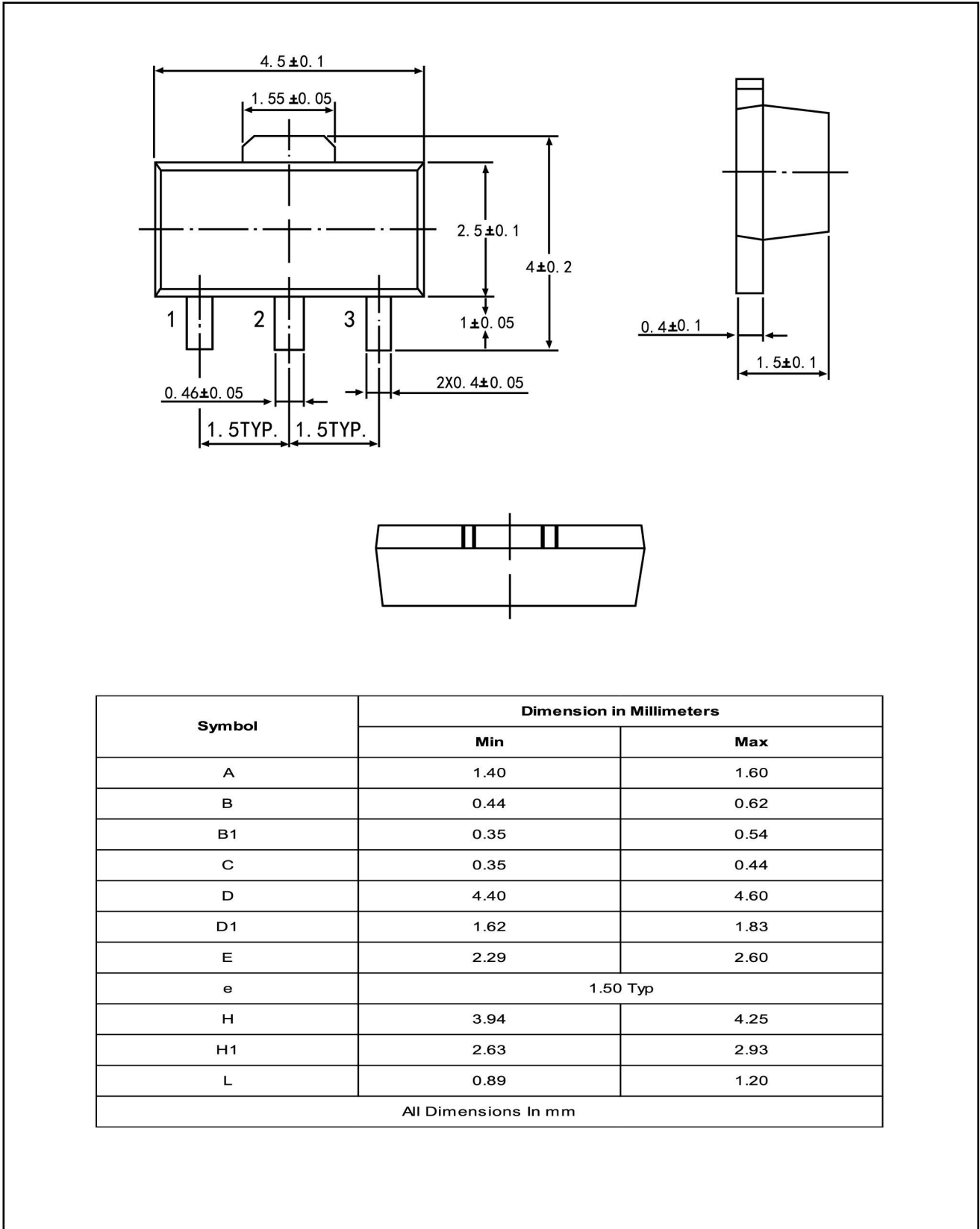
Parameter	Symbol	Test conditions	Mjb	Tnd	Max	Unit
Output Voltage	V_o	$25^\circ C$	-4.8	-5.0	-5.2	V
		$-7V \leq V_i \leq -20V, I_o = 1mA \sim 40mA$	-4.75	-5.0	-5.25	V
		$0 \sim 125^\circ C$	-4.75	-5.0	-5.25	V
Load Regulation	ΔV_o	$I_o = 1mA \sim 100mA$	$25^\circ C$	20	60	mV
		$I_o = 1mA \sim 40mA$	$25^\circ C$	10	30	mV
Line Regulation	ΔV_o	$-7V \leq V_i \leq -20V$	$25^\circ C$	15	150	mV
		$-8V \leq V_i \leq -20V$	$25^\circ C$	12	100	mV
Quiescent Current	I_q	$25^\circ C$			6	mA
Quiescent Current Change	ΔI_q	$-8V \leq V_i \leq -20V$	$0 \sim 125^\circ C$		1.5	mA
		$1mA \leq V_i \leq 40mA$	$0 \sim 125^\circ C$		0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$	$25^\circ C$	40		μV
Ripple Rejection	RR	$-8V \leq V_i \leq -18V, f = 120Hz$	$0 \sim 125^\circ C$	41	49	dB
Dropout Voltage	V_d	$25^\circ C$		1.7		V

TYPICAL APPLICATION



Note : Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

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		

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Linear Voltage Regulators](#) category:

Click to view products by [TWGMC](#) manufacturer:

Other Similar products are found below :

[LV56831P-E](#) [LV5684PVD-XH](#) [MCDTSA6-2R](#) [L7815ACV-DG](#) [PQ3DZ53U](#) [LV56801P-E](#) [L78L05CZ/1SX](#) [L78LR05DL-MA-E](#) [636416C](#)
[714954EB](#) [LV5680P-E](#) [L78M15CV-DG](#) [L79M05T-E](#) [MIC5283-5.0YML-T5](#) [TLS202A1MBVHTSA1](#) [L78LR05D-MA-E](#) [NCV317MBTG](#)
[NTE7227](#) [MP2018GZD-33-P](#) [MP2018GZD-5-P](#) [LV5680NPVC-XH](#) [LT1054CN8](#) [MP2018GZD-5-Z](#) [MP2018GZD-33-Z](#) [AT55EL50ESE](#)
[APL5934DKAI-TRG](#) [CL9193A15L5M](#) [CL9036A30F4M](#) [CL9036A18F4M](#) [CL9036A25F4M](#) [CL9036A28F4M](#) [CL9036A33F4M](#)
[CL9906A18F4N](#) [CL9906A30F4N](#) [CL9908A30F4M](#) [CL9908A33F4M](#) [CL9908A18F4M](#) [CL9908A28F4M](#) [TL431ACM/TR](#) [TL431AIM/TR](#)
[LM78L05ACM/TR](#) [HT7812ARMZ](#) [HT7805ARMZ](#) [HXY6206I-3.0](#) [HXY6206I-3.3](#) [XC6206P252MR](#) [XC6206P282MR](#) [XC6206P302MR](#)
[XC6206P332MR](#) [CJ6211B12F](#)