

Encapsulate Three-terminal Voltage Regulators

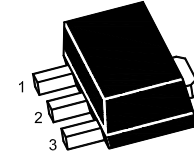
Three-terminal negative voltage regulator

FEATURES

- Maximum output current
 $I_{OM}: 0.1\text{ A}$
- Output voltage
 $V_O: -8\text{ V}$
- Continuous total dissipation
 $P_D: 0.5\text{ W}$

SOT-89 Plastic Package

1. GND
2. IN
3. OUT



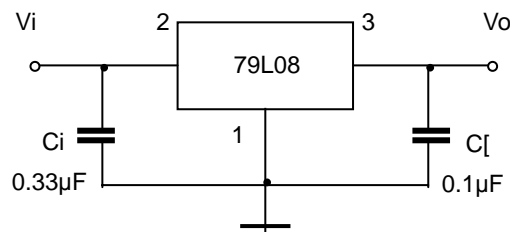
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

| Parameter | Symbol | Value | Unit |
|--------------------------------------|-----------|----------|------|
| 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 ($V_I=-14\text{V}$, $I_o=40\text{mA}$, $C_i=0.33\mu\text{F}$, $C_o=0.1\mu\text{F}$, unless otherwise specified)

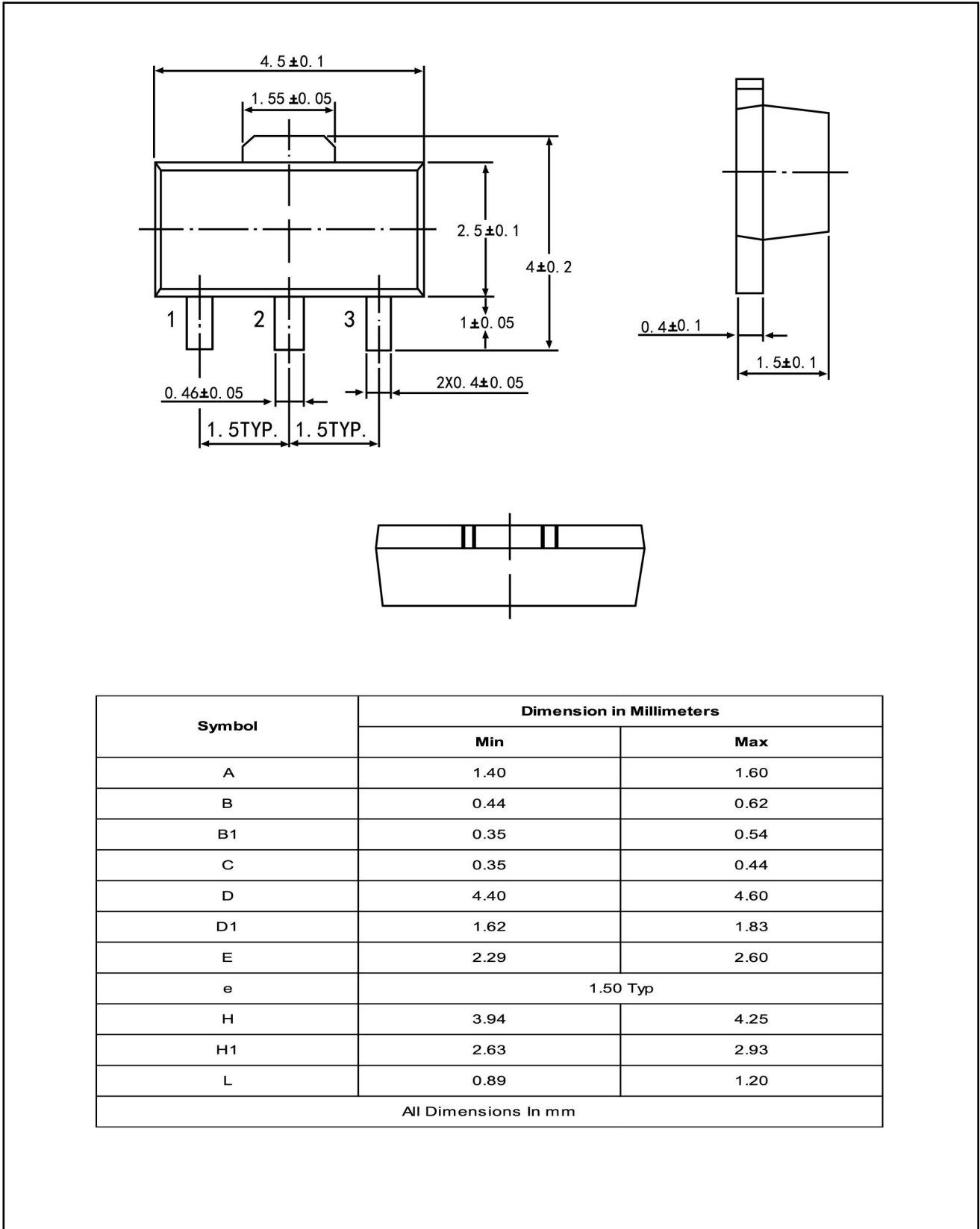
| Parameter | Symbol | Test conditions | Mj | Tnd | MU |I bjh |
|--------------------------|--------------|---|--------------------|------|------|------------|
| Output Voltage | V_o | 25°C | -7.7 | -8.0 | -8.3 | V |
| | | $-10.5\text{V} \leq V_I \leq -23\text{V}$, $I_o=1\text{mA} \sim 40\text{mA}$ | -7.6 | -8.0 | -8.4 | V |
| | | $I_o=1\text{mA} \sim 70\text{mA}$ | -7.6 | -8.0 | -8.4 | V |
| Load Regulation | ΔV_o | $I_o=1\text{mA} \sim 100\text{mA}$ | 25°C | 30 | 100 | mV |
| | | $I_o=1\text{mA} \sim 40\text{mA}$ | 25°C | 15 | 50 | mV |
| Line Regulation | ΔV_o | $-10.5\text{V} \leq V_I \leq -23\text{V}$ | 25°C | 42 | 200 | mV |
| | | $-11\text{V} \leq V_I \leq -23\text{V}$ | 25°C | 36 | 150 | mV |
| Quiescent Current | I_q | | 25°C | 4 | 6 | mA |
| Quiescent Current Change | ΔI_q | $-11\text{V} \leq V_I \leq -23\text{V}$ | 0-125°C | | 1.5 | mA |
| | ΔI_q | $1\text{mA} \leq I_o \leq 40\text{mA}$ | 0-125°C | | 0.1 | mA |
| Output Noise Voltage | V_N | $10\text{Hz} \leq f \leq 100\text{KHz}$ | 25°C | 54 | | uV |
| Ripple Rejection | RR | $-11\text{V} \leq V_I \leq -21\text{V}$, $f=120\text{Hz}$ | 0-125°C | 37 | 46 | dB |
| Dropout Voltage | V_d | | 25°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 :

[LV5684PVD-XH](#) [MCDTSA6-2R](#) [L7815ACV-DG](#) [LV56801P-E](#) [UA7805CKC](#) [714954EB](#) [ZMR500QFTA](#) [BA033LBSG2-TR](#)
[NCV78M05ABDTRKG](#) [LV5680P-E](#) [L79M05T-E](#) [L78LR05D-MA-E](#) [NCV317MBTG](#) [NTE7227](#) [MP2018GZD-33-P](#) [MP2018GZD-5-P](#)
[LV5680NPVC-XH](#) [ZTS6538SE](#) [UA78L09CLP](#) [UA78L09CLPR](#) [CAT6221-PPTD-GT3](#) [MC78M09CDTRK](#) [NCV51190MNTAG](#)
[BL1118CS8TR1833](#) [BL8077CKETR33](#) [BL9153-33CC3TR](#) [BL9161G-28BADRN](#) [BRCO7530MMC](#) [CJ7815B-TFN-ARG](#) [LM317C](#)
[GM7333K](#) [GM7350K](#) [XC6206P332MR](#) [HT7533](#) [LM7912S/TR](#) [LT1764S/TR](#) [LM7805T](#) [LM338T](#) [LM1117IMP-3.3/TR](#) [HT1117AM-3.3](#)
[HT7550S](#) [AMS1117-3.3](#) [HT7150S](#) [78L12](#) [HT7550](#) [HT7533-1](#) [HXY6206I-2.5](#) [HT7133](#) [HT7533S](#) [662K](#)