# DC COMPONENTS CO., LTD.

INTEGRATED CIRCUIT

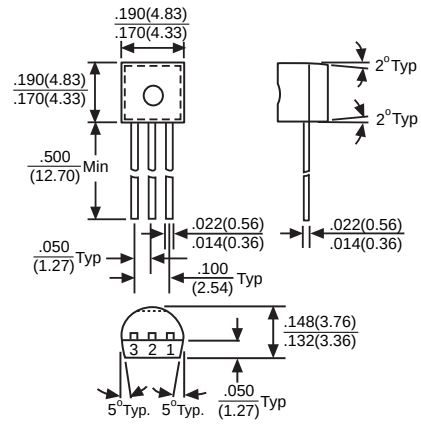
DA79L12
DA79L12A

## TECHNICAL SPECIFICATIONS OF 3-TERMINAL NEGATIVE VOLTAGE REGULATOR

## Description

These regulators empoly internal current limiting and thermal shutdown, making them essentially indestructible. They can deliver up to 100mA output current, if the case temperature can keep in $T_C$=25°C. They are intended as fixed voltage regulators in a wide range of applications including local(on-card) regulation for elimination of noise and distribution problems associated with single-point regulation. In addition, they can be used with power pass elements to make high-current voltage regulators.

TO-92




Dimensions in inches and (millimeters)

## Pinning

1 = Ground
2 = Input
3 = Output

## Absolute Maximum Ratings ($T_A$=25°C)

| Characteristic | Symbol | Rating | Unit |
|---|---|---|---|
| Input Voltage | $V_I$ | -35 | V |
| Total Power Dissipation | $P_D$ | Internal limit | W |
| Operating Temperature Range | Topr | -30 to +75 | °C |
| Maximum Junction Temperature | $T_J$ | 125 | °C |
| Storage Temperature Range | $T_{STG}$ | -40 to +125 | °C |

## Electrical Characteristics

($V_{in}$=-19V, Iout=40mA, 0°C≦$T_J$≦125°C, $C_{in}$=0.33μF, $C_{out}$=0.1μF, unless otherwise specified)

| Characteristic | | Symbol | Min | Typ | Max | Unit | Test Conditions |
|---|---|---|---|---|---|---|---|
| Output Voltage | DA79L12A | $V_O$ | -11.64 | -12.00 | -12.36 | V | $T_J$=25°C |
| | DA79L12 | | -11.40 | -12.00 | -12.60 | | |
| Line Regulation | | Regline | - | - | 250 | mV | $T_J$=25°C, -14.5V≦$V_{in}$≦-27V |
| Load Regulation | | Regload | - | - | 100 | mV | $T_J$=25°C, 1mA≦$I_O$≦100mA |
| Input Bias Current | | $I_{IB}$ | - | - | 6.0 | mA | $T_J$=25°C |
| Output Noise Voltage | | $V_n$ | - | 210 | - | μV | $T_A$=25°C, 10Hz≦f≦100KHz |
| Ripple Rejection | | RR | 37 | 64 | - | dB | -15V≦$V_{in}$≦-25V, f=190Hz |