



TO92

Transistor Outline Package (TO92)

DESCRIPTION

LINGSEN's TO-92 (Transistor Outline)

package is a cylindrical plastic encapsulated

package with in-line exterior leads stretch out
the bottom side of the package to provide
through-hole insertion to the PWB. The TO-92
is an inexpensive package, which is readily
adaptable for use in automatic insertion
equipment.

SPECIFICATIONS

• Gold Wire: 99.99%Au.

■ Mold Compound: G600 (Green)

• Plating: Matte Tin

♣ Packing:
S / Pb, Matte Tin

Straight lead option available in bulk pack only.

Formed lead option available in tape & reel or ammo pack for TO-92 STD only.

APPLICATIONS

- Transistors
- Power Management Devices
 Voltage Detectors
 Voltage Regulators
- SensorsHall Effect Sensors

Thermal Sensors

RELIABILITY

MSL Level JEDEC Level 3 @ 260°

Pressure Cook Test 168 hrs (121°C,100%RH,2atm)

Temperature Cycling 1,000 cycles (-65°C/+150°C)

HAST 100 hrs (130°C,85%RH)

Temperature & Humidity Test1,000 hrs (85°C,85%RH)

High Temperature Storage 1,000 hrs (150°C)

DEFINITION

- TO-92 STD (Standard Cylindrical Package)
 Standard cylindrical body with 3 in-line exterior leads stretch out the bottom side.
- TO-92 SP/SPL (Small Flat Body Package)
 Small flat body with 3 in-line exterior leads stretch out the bottom side.
- TO-92 4L/5L (Flat Package)

Flat body with 4 or 5 in-line exterior leads stretch out the bottom side.

PACKAGE AVAILABILITY				
Package	Body Size (mm)	Pad Size (mm)	Die Size (mm)	Thermal Performance θ ja (°C/W)
TO-92 4L	5.22x3.81	3.81x2.03	2.52x1.78x0.30	109.06
TO-92 4L	5.22x3.81	3.81x2.03	1.98x1.31x0.30	107.51
TO-92 5L	5.22x3.65	3.46x1.90	2.00x1.50x0.30	105.30

Note: Simulated with JEDEC Standard 4-layer test board and 51-series under still air condition, ambient temperature 45°C

