

NMP (New MP) Transistor Series

Features

- * Small-sized package containing the same chip that has been so far placed in the MP,T0-126 packages.
 - * Small-sized package making it possible to make application sets smaller and slimmer.
 - * Can meet tape-used automatic mounting requirements.
 - * Full line-up of products for wide application.
 - * Adoption of MBIT/FBET processes (marked with *)

For PNP, (-) sign is omitted.

| Type No. | Main Application | Absolute Maximum Ratings/Ta=25°C | | | | Electrical Characteristics/Ta=25°C | | | | | | | Related Type No. |
|----------------------|--|----------------------------------|-------------------------|-----------------------|-----------------------|------------------------------------|-----------------------|------------------------|------------------------|-----------------------|-----------------------|---|----------------------|
| | | V _{CBO} (V) | V _{CEO} (V) | I _C (A) | P _C (W) | V _{CE} (V) | I _C (A) | h _{FE} min | h _{FE} max | I _C (A) | I _B (A) | V _{CE(sat)} typ max (V) | |
| 2SA1701 2SC4481 | High-current switching | 15 | 15 | 1.5 | 0.9 | 2 | 0.05 | 140 ~ 560 | 0.4 | 0.02 | 0.1 | 0.2 | 2SA1882 2SC4984 |
| 2SA1702* | | 25 | 20 | 5 | 1 | 2 | 0.5 | 100 ~ 400 | 3 | 0.06 | 0.25 | 0.5 | 2SB1131* |
| 2SC4482 | | 60 | 20 | 5 | 1 | 2 | 0.5 | 140 ~ 560 | 3 | 0.06 | 0.22 | 0.5 | 2SD1805 |
| 2SA1703 2SC4483 | | 30 | 25 | 1.5 | 1 | 2 | 0.05 | 100 ~ 400 | 0.5 | 0.05 | 0.15 | 0.5 | 2SB544 2SD400 |
| 2SA1704* 2SC4484* | | 30 | 25 | 2.5 | 1 | 2 | 0.1 | 100 ~ 400 | 1.5 | 75m | 0.35 | 0.6 | 2SB927* 2SD1247* |
| 2SA1705* 2SC4485* | | 60 | 50 | 1 | 0.9 | 2 | 0.1 | 100 ~ 400 | 0.5 | 0.05 | 0.18 | 0.5 | 2SB764* 2SD863* |
| 2SA1706* 2SC4486* | | 60 | 50 | 2 | 1 | 2 | 0.1 | 100 ~ 400 | 1 | 0.05 | 0.3 | 0.7 | 2SB892* 2SD1207* |
| 2SA1707* 2SC4487* | | 60 | 50 | 3 | 1 | 2 | 0.1 | 100 ~ 400 | 2 | 0.1 | 0.35 | 0.7 | 2SB985* 2SD1347* |
| 2SA1708* 2SC4488* | High-voltage switching | 120 | 100 | 1 | 1 | 5 | 0.1 | 100 ~ 400 | 0.4 | 0.04 | 0.2 | 0.6 | 2SA1592* 2SC4134* |
| 2SA1709* 2SC4489* | | 120 | 100 | 2 | 1 | 5 | 0.1 | 100 ~ 400 | 1 | 0.1 | 0.22 | 0.6 | 2SA1593* 2SC4135* |
| 2SA1768* 2SC4612* | | 180 | 160 | 0.7 | 1 | 5 | 0.1 | 100 ~ 400 | 0.25 | 25m | 0.2 | 0.5 | 2SA1418* 2SC3648* |
| 2SA1770* 2SC4614* | | 180 | 160 | 1.5 | 1 | 5 | 0.1 | 100 ~ 400 | 0.5 | 50m | 0.2 | 0.5 | 2SA1552* 2SC4027* |
| 2SA1784* 2SC4644* | | 400 | 400 | 0.2 | 1 | 10 | 50m | 60 ~ 200 | 50m | 5m | 0.8 | 0.6 | 2SA1700* 2SC4003* |
| 2SA1785 2SC4645 | | 400 | 400 | 1 | 1 | 10 | 0.1 | 40 ~ 200 | 0.2 | 20m | | 1.0 | 2SA1772 2SC4615 |
| 2SA1786 2SC4646 | | 400 | 400 | 2 | 1 | 10 | 0.1 | 40 ~ 200 | 0.5 | 50m | | 1.0 | 2SA1773 2SC4616 |
| 2SA1710* 2SC4490* | CTV chroma output | 300 | 300 | 0.1 | 1 | 10 | 0.01 | 70 ~ 280 | 0.02 | 2m | | 0.6 | 2SA1353* 2SC3417* |
| 2SA1787* 2SC4650* | High-voltage driver | 200 | 200 | 0.1 | 1 | 10 | 10m | 60 ~ 320 | 20m | 2m | | 0.6 | 2SA1370* 2SC3467* |
| 2SB1405 2SD2116 | Darlington ◆:With zener diode between C and B | 80 | 50 | 0.7 | 1 | 2 | 0.05 | 5000 | 0.1 | 0.1m | 0.8 | 1.2 | 2SB888 2SD1111 |
| 2SB1406 2SD2117 | | 80 | 50 | 1.5 | 1 | 2 | 0.5 | 4000 | 0.5 | 0.5m | 0.9 | 1.5 | 2SB865 2SD1153 |
| 2SC4491◆ | | 60±10 | 1.2 | 1 | 5 | 0.5 | 1000 | | 0.5 | 2m | 1.0 | 1.5 | 2SC4169 |
| 2SC4671◆ | | 60±10 | 2 | 1 | 5 | 1 | 1000 | | 1 | 4m | 1.0 | 1.5 | 2SC3785 |
| 2SC4696◆ | | 90±10 | 0.8 | 1 | 3 | 0.5 | 1000 | | 0.5 | 1m | 0.95 | 1.5 | - |
| 2SD2120 | | 100 | 80 | 2 | 1 | (1)3 (2)3 | 0.5 1 | 1000 2000-30000 | 1 | 2m | 1.0 | 1.5 | 2SD1914 |
| 2SC4480* | High hFE | 30 | 25 | 2 | 1 | 5 | 0.5 | 800 ~ 3200 | 1 | 0.02 | 0.15 | 0.5 | 2SC4389 |

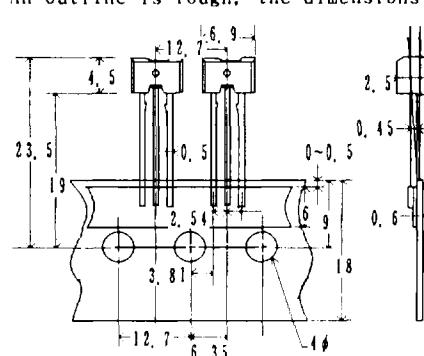
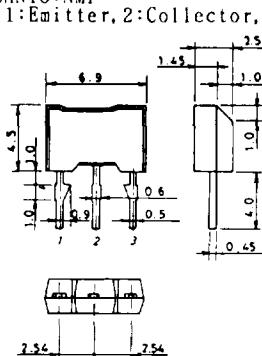
Case Outline (unit:mm)

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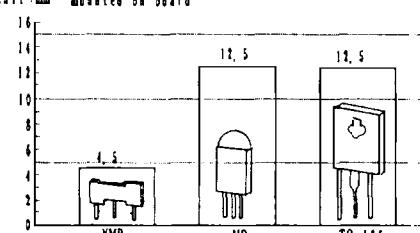
1: Emitter, 2: Collector, 3: Base

Taping dimension(unit:mm)

An outline is rough, the dimensions are shown is typical value.



Comparison of heights of NMP, MP, TO-116 packages mounted on board



These specifications are subject to change without notice.