

Darlington Transistors (Small-Signal TR)

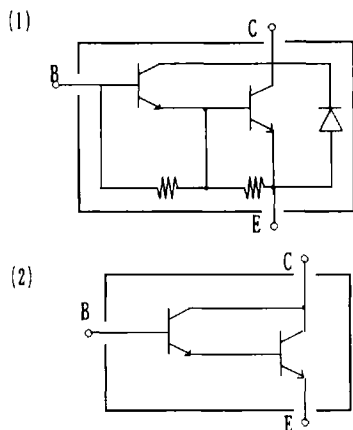
Darlington transistors can be driven with less power. Darlington transistor-applied circuits can be simplified and made small-sized, facilitating assembly of sets.

Our Darlington transistors are available for $I_c=0.2A$ to $15A$ (Large-Signal TR) and can be applied to various uses.

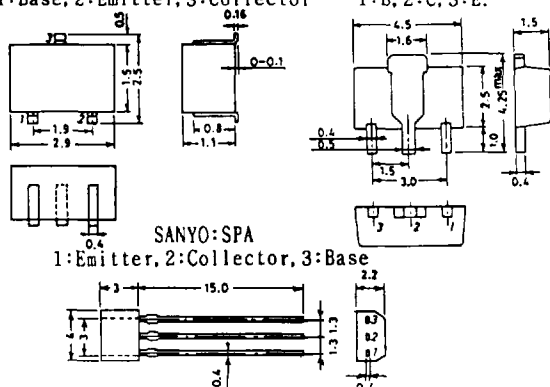
Applications

☆ ECRs, printers, typewriters, sewing machines, recorders, computers, igniters, car coolers, projectors, players, stereos, home appliances, audio equipment, industrial equipment.

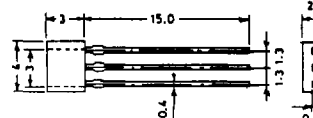
Electrical connection (NPN)



Case Outlines (unit: mm)
 SANYO:CP 1:Base, 2:Emitter, 3:Collector
 SANYO:PCP 1:B, 2:C, 3:E.

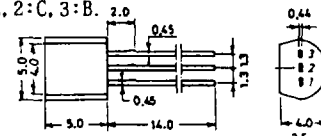


SANYO:SPA 1:Emitter, 2:Collector, 3:Base

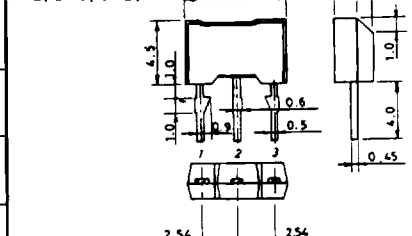


SANYO:NP

1:E, 2:C, 3:B.

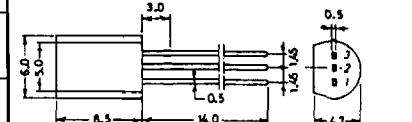


SANYO:NMP 1:E, 2:C, 3:B.



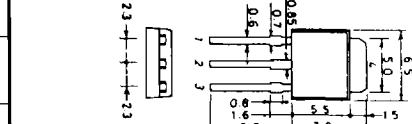
SANYO:MP

1:E, 2:C, 3:B.



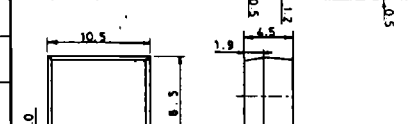
SANYO:TP

1:Base, 2:Collector, 3:Emitter
4:Collector.

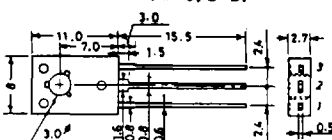


SANYO:FLP

1:E, 2:C, 3:B.



SANYO:TO-126
1:E, 2:C, 3:B.



For PNP, (-) sign is omitted. *: Mounted on ceramic board (250mm² × 0.8mm). †: T_c = 25°C.

| Type No. (): Marking | Package | Absolute Maximum Ratings/T _a = 25°C | | | | Electrical Characteristics/T _a = 25°C | | | | | | Electrical connection |
|----------------------------|---------|--|-------------------------|-----------------------|-----------------------|--|-----------------------|------------------------|-----------------------|------------------------|--------------------------------|-----------------------|
| | | V _{CB0} (V) | V _{CEO} (V) | I _C (A) | P _C (W) | V _{CE} (V) | I _C (A) | h _{FE} min | I _C (A) | I _B (mA) | V _{CE(sat)} max(V) | |
| 2SB1234(PL) 2SD1851(XY) | CP | 80 | 50 | 0.2 | 0.2 | | 0.01 | 5000 | 0.1 | 0.1 | 1.5 | (2) |
| 2SB1125(BH) 2SD1625(DH) | PCP | 80 | 50 | 0.7 | *1.3 | | 0.05 | 5000 | 0.1 | 0.1 | 1.2 | (2) |
| 2SB1126(BI) 2SD1626(DI) | | 80 | 50 | 1.5 | *1.5 | | 0.5 | 4000 | 0.5 | 0.5 | 1.5 | (2) |
| 2SD1627(DJ) | | 30 | 25 | 2 | *1.5 | | 0.5 | 4000 | 0.6 | 0.15 | 1.5 | (2) |
| 2SD2261(DR) | | 80 | 60 | 2.5 | *1.5 | | 1 | 2000 | 1 | 2 | 1.5 | (1) |
| 2SB1235 2SD1852 | SPA | 80 | 50 | 0.2 | 0.3 | 2 | 0.01 | 5000 | 0.1 | 0.1 | 1.5 | (2) |
| 2SB888 2SD1111 | NP | 80 | 50 | 0.7 | 0.6 | | 0.05 | 5000 | 0.1 | 0.1 | 1.2 | (2) |
| 2SD1853 | | 80 | 60 | 1.5 | 0.7 | | 0.5 | 1000 | 1 | 2 | 1.5 | (1) |
| 2SB1405 2SD2116 | NMP | 80 | 50 | 0.7 | 1 | | 0.05 | 5000 | 0.1 | 0.1 | 1.2 | (2) |
| 2SB1406 2SD2117 | | 80 | 50 | 1.5 | 1 | | 0.5 | 4000 | 0.5 | 0.5 | 1.5 | (2) |
| 2SD2120 | | 100 | 80 | 2 | 1 | 3 | 0.5 | 1000 | 1 | 2 | 1.5 | (1) |
| 2SB865 2SD1153 | MP | 80 | 50 | 1.5 | 0.9 | | 0.5 | 4000 | 0.5 | 0.5 | 1.5 | (2) |
| 2SD1854 | | 80 | 60 | 1.5 | 1 | | 0.5 | 1000 | 1 | 2 | 1.5 | (1) |
| 2SD1981 | | 100 | 80 | 2 | 1 | 3 | 0.5 | 1000 | 1 | 2 | 1.5 | (1) |
| 2SB1214 2SD1817 | TP | 80 | 50 | 3 | *15 | | 1 | 2000 | 2 | 4 | 1.5 | (1) |
| 2SD1799 | | 30 | 25 | 3 | *15 | 2 | 0.5 | 4000 | 1 | 0.5 | 1.5 | (2) |
| 2SD1800 | | 80 | 50 | 1.5 | *10 | | 0.5 | 4000 | 0.5 | 0.5 | 1.5 | (2) |
| 2SB1510 2SD2284 | FLP | 80 | 60 | 3 | 1.5 | 2 | 1 | 2000 | 2 | 4 | 1.5 | (1) |
| 2SD2426 | | 100 | 80 | 2 | 1.5 | 3 | 0.5 | 1000 | 1 | 2 | 1.5 | (1) |
| 2SD894 | TO-126 | 30 | 25 | 1.5 | 1 | 2 | 0.5 | 4000 | 0.6 | 0.15 | 1.5 | (2) |
| 2SD1953 | | 120 | 120 | 1.5 | *10 | 3 | 0.5 | 1000 | 1 | 2 | 1.5 | (1) |

⊕ In addition to the above, the C-B Zener diode-contained Darlington TR, Large Signal TR series are available.

These specifications are subject to change without notice.