

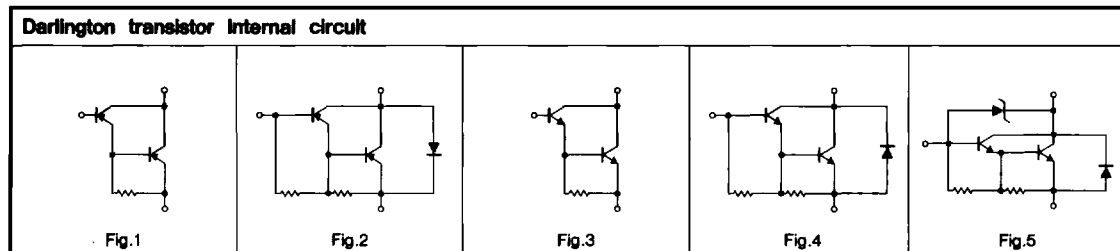
# Transistors

## CPT · TO-126 · TO-126FP

CPT (SC-59) is also available as automated, surface mount type by adding F5 to the part number (see page 77).  
TO-126FP is a direct mounting type, allowing simple assembly without additional insulator.

| Application                              | Package  |          |          | V <sub>CEO</sub> (V)<br>** V <sub>CER</sub> | I <sub>c</sub> (A) | I <sub>c</sub> Max. (A) | P <sub>c</sub> (W) (T <sub>c</sub> =25°C) |        |          | h <sub>FE</sub> | h <sub>FE</sub> Ranking code | V <sub>CE</sub> (V) | I <sub>c</sub> (mA) | Internal circuit |   |
|--|----------|----------|----------|---|--------------------|-------------------------|---|--------|----------|-----------------|------------------------------|---------------------|---------------------|------------------|---|
|  | CPT      | TO-126   | TO-126FP |   |                    |                         | CPT                                       | TO-126 | TO-126FP |                 |                              |                     |                     |                  |   |
|  | Part No. |          |          |   |                    |                         |   |        |          |                 |                              |                     |                     |                  |   |
| Driver                                   | -        | 2SB1007  | 2SB889F  | -80   | -0.7               | -                       | -   | 10     | 5        | 82~390          | P Q R                        | -3                  | -100                | -                |   |
|  | 2SB1182  | 2SB1009  | 2SB891F  | -32   | -2                 | -                       | -   | 10     | 10       | 5               | 82~390                       | P Q R               | -5                  | -500             | - |
|  | -        | 2SB1085  | -        | -50   | -3                 | -                       | -   | 10     | -        | 56~390          | N P Q R                      | -3                  | -500                | -                |   |
|  | -        | 2SB1086  | -        | -120  | -1.5               | -                       | -   | 10     | -        | 56~390          | N P Q R                      | -5                  | -100                | -                |   |
|  | 2SB1275  | 2SB1086A | -        | -160  | -1.5               | -                       | 10  | 10     | -        | 56~270          | N P Q                        | -5                  | -100                | -                |   |
|  | 2SB1184  | -        | -        | -50   | -3                 | -                       | 15  | -      | -        | 82~390          | P Q R                        | -3                  | -500                | -                |   |
|  | 2SB1181  | -        | -        | -80   | -1                 | -                       | 10  | -      | -        | 82~390          | P Q R                        | -3                  | -100                | -                |   |
|  | 2SB1516  | -        | -        | -80   | -3                 | -                       | 10  | -      | -        | 56~270          | N P Q                        | -2                  | -400                | -                |   |
|  | 2SB1535  | -        | -        | -100  | -6                 | -                       | 10  | -      | -        | 56~270          | N P Q                        | -1                  | -550                | -                |   |
|  | -        | 2SD1378  | 2SD1200F | 80  | 0.7                | -                       | -   | 10     | 5        | 82~390          | P Q R                        | 3                   | 100                 | -                |   |
|  | 2SD1758  | 2SD1380  | 2SD1189F | 32  | 2                  | -                       | 10  | 10     | 5        | 82~390          | P Q R                        | 3                   | 500                 | -                |   |
|  | -        | 2SD1382  | 2SD1381F | 80  | 1                  | 2                       | -   | 10     | 5        | 82~390          | P Q R                        | 3                   | 100                 | -                |   |
|  | 2SD1733  | -        | -        | 80  | 1                  | -                       | 10  | -      | -        | 82~390          | P Q R                        | 3                   | 500                 | -                |   |
|  | -        | 2SD1506  | -        | 50  | 3                  | -                       | 10  | -      | -        | 56~390          | N P Q R                      | 5                   | 100                 | -                |   |
|  | 2SD1760  | -        | -        | 50  | 3                  | -                       | 15  | -      | -        | 82~390          | P Q R                        | 3                   | 500                 | -                |   |
| -  | 2SD1563  | 2SD2343  | 120      | 1.5   | -                  | -                       | 10  | 5      | 56~390   | N P Q R         | 5                            | 100                 | -                   |                  |   |
| 2SD1918                                  | 2SD1563A | -        | 160      | 1.5   | -                  | 10                      | 10  | -      | 56~270   | N P Q           | 5                            | 100                 | -                   |                  |   |
| Strobe Flash<br>Low V <sub>CE(sat)</sub> | 2SA1834  | -        | -        | -20   | -10                | -15                     | 10  | -      | -        | 120~560         | Q R S                        | -2                  | -500                | -                |   |
|  | 2SA1952  | -        | -        | -80   | -5                 | -10                     | 10  | -      | -        | 82~270          | P Q                          | -2                  | -1000               | -                |   |
|  | 2SB1412  | 2SB1423  | 2SB1436  | -20   | -5                 | -10                     | 10  | 10     | 5        | 82~390          | P Q R                        | -2                  | -500                | -                |   |
|  | 2SC5001  | -        | -        | 20  | 10                 | 15                      | 10  | -      | -        | 120~560         | Q R S                        | 2                   | 500                 | -                |   |
|  | 2SC5103  | -        | -        | 60  | 5                  | 5                       | 10  | -      | -        | 82~270          | P Q                          | 2                   | 1000                | -                |   |
|  | 2SD2118  | 2SD2147  | 2SD2166  | 20  | 5                  | 10                      | 10  | 10     | 5        | 120~560         | Q R S                        | 2                   | 500                 | -                |   |
| Chroma                                   | -        | 2SC3272  | 2SC3271F | 300   | 0.1                | -                       | -   | 10     | 5        | 39~180          | M N P                        | 10                  | 10                  | -                |   |
| High h <sub>FE</sub>                     | -        | -        | 2SC4137  | 20  | 0.1                | -                       | -   | -      | 4        | 560~2700        | U V W                        | 3                   | 10                  | -                |   |
|  | 2SD2318  | -        | -        | 60  | 3                  | 4.5                     | 15  | -      | -        | 390~1800        | E U V                        | 4                   | 500                 | -                |   |
| Darlington<br>Driver                     | -        | 2SB1008  | 2SB786F  | -40**                                       | -2                 | -                       | -   | 10     | 5        | 1k~             | A                            | -3                  | -500                | Fig.1            |   |
|  | 2SB1183  | -        | -        | -40**                                       | -2                 | -                       | 10  | -      | -        | 1k~200k         | -                            | -3                  | -500                | Fig.1            |   |
|  | 2SB1316  | 2SB1272  | -        | -100  | -2                 | -                       | 10  | 10     | -        | 1k~10k          | -                            | -2                  | -1000               | Fig.3            |   |
|  | 2SB1474  | -        | -        | -80   | -4                 | -                       | 10  | -      | -        | 1k~10k          | -                            | -3                  | -2000               | Fig.2            |   |
|  | -        | 2SD1379  | 2SD947F  | 40**  | 2                  | -                       | -   | 10     | 5        | 4k~             | -                            | 3                   | 500                 | Fig.4            |   |
|  | 2SD1759  | -        | -        | 40**  | 2                  | -                       | 10  | -      | -        | 1k~200k         | -                            | 3                   | 500                 | Fig.4            |   |
|  | 2SD2143  | 2SD1637  | -        | 60±10                                       | 2                  | -                       | 10  | 10     | -        | 1k~10k          | -                            | 2                   | 1000                | Fig.6            |   |
| 2SD1980                                  | 2SD1638  | -        | 100      | 2   | -                  | 10                      | 10  | -      | 1k~10k   | -               | 2                            | 1000                | Fig.5               |                  |   |
| High Voltage SW                          | 2SA1727  | 2SA1775  | -        | -400  | -0.5               | -1                      | 10  | 10     | -        | 56~270          | N P Q                        | -5                  | -50                 | -                |   |
|  | 2SA1862  | -        | -        | -400  | -2                 | -4                      | 10  | -      | -        | 56~180          | N P                          | -5                  | -100                | -                |   |
|  | 2SA1807  | -        | -        | -600  | -1                 | -2                      | 10  | -      | -        | 56~180          | N P                          | -5                  | -100                | -                |   |
|  | ☆2SC5161 | -        | -        | 400   | 2                  | 4                       | 10  | -      | -        | 16~50           | A B                          | 5                   | 100                 | -                |   |
|  | ☆2SC5162 | -        | -        | 600   | 1                  | 2                       | 10  | -      | -        | 56~180          | N P                          | 5                   | 100                 | -                |   |

Note: ☆Under development

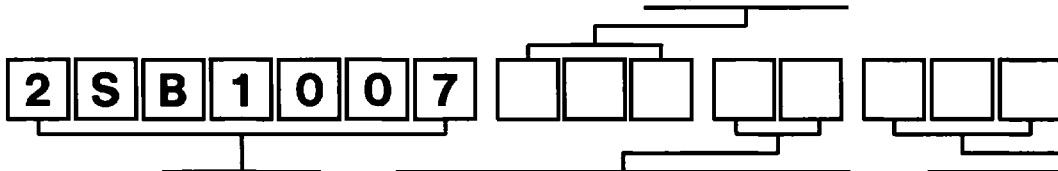


●Product Designation

- When ordering, specify the type.
- Check each code against the tables shown below.
- Fill a space with the next character.

Special code

- Omit for standard product.
- Factory assigned for custom product.



Part No.

Packaging

| Package  | Code | Package specifications | Quantity /Package (pcs) |
|----------|------|------------------------|-------------------------|
| CPT      | None | Bulk                   | 1,000                   |
| TO-126   | None | Bulk                   | 1,000                   |
| TO-126FP | None | Bulk                   | 1,000                   |

hFE Ranking code

Input hFE rank signal display  
 One rank preferred  P   
 Multiple rank preferred  P  R  
 (Min., Max. is displayed)

| Code | hFE Range |
|------|-----------|
| L    | 27~56     |
| M    | 39~82     |
| N    | 56~120    |
| P    | 82~180    |
| Q    | 120~270   |
| R    | 180~390   |
| S    | 270~560   |
| E    | 390~820   |
| U    | 560~1200  |
| V    | 820~1800  |
| W    | 1200~2700 |
| A    | 1k~       |
| B    | 5k~       |
| C    | 10k~      |

Transistors

TO-18 TO-18A TO-18B TO-18C TO-18D TO-18E TO-18F TO-18G TO-18H TO-18I TO-18J TO-18K TO-18L TO-18M TO-18N TO-18O TO-18P TO-18Q TO-18R TO-18S TO-18T TO-18U TO-18V TO-18W TO-18X TO-18Y TO-18Z

The ROHM Group has been selected as a member of the Standard Product Units.

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(Unit : mm)

