Part No. Explanation

Transistors

**MOSFET Part No. Explanation**

**<Single-Chip Type>**

Example: R T Q 0 3 5 P 0 2 T R

Drive Voltage

<table>
<thead>
<tr>
<th>Type of MOSFET</th>
<th>Drive Voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low ESD resistance</td>
<td>30V T=200°C U=250V J=50V L=60V</td>
</tr>
<tr>
<td>Low Current</td>
<td>10V T=125°C U=200V J=30V L=40V</td>
</tr>
<tr>
<td>Low IGSS Type</td>
<td>1.2V/1.5V</td>
</tr>
<tr>
<td>Stripe</td>
<td>E=Low noise</td>
</tr>
</tbody>
</table>

Vos (V)

<table>
<thead>
<tr>
<th>Polarity</th>
<th>Symbol</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>M</td>
<td>DT-252</td>
</tr>
<tr>
<td>P</td>
<td>D</td>
<td>TO-220PM</td>
</tr>
</tbody>
</table>

**<Single-Chip Type>**

Example: R T 1 A 0 4 0 Z P T L

Drive Voltage

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>MN</td>
<td>VMT5</td>
</tr>
<tr>
<td>PA</td>
<td>TSMT8</td>
</tr>
<tr>
<td>PN</td>
<td>VMT6</td>
</tr>
</tbody>
</table>

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<td>VMT5</td>
</tr>
<tr>
<td>P</td>
<td>PA</td>
<td>TSMT8</td>
</tr>
<tr>
<td>M</td>
<td>PN</td>
<td>VMT6</td>
</tr>
</tbody>
</table>

**<Dual-Chip Type>**

Example: S H 8 M 3 T B

Drive Voltage

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>MN</td>
<td>VMT5</td>
</tr>
<tr>
<td>PA</td>
<td>TSMT8</td>
</tr>
<tr>
<td>PN</td>
<td>VMT6</td>
</tr>
</tbody>
</table>

Vos (V)

<table>
<thead>
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<th>Polarity</th>
<th>Symbol</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>MN</td>
<td>VMT5</td>
</tr>
<tr>
<td>P</td>
<td>PA</td>
<td>TSMT8</td>
</tr>
<tr>
<td>M</td>
<td>PN</td>
<td>VMT6</td>
</tr>
</tbody>
</table>

Notes: Package is JEDEC code. ( ) ROHM Packages

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Part No. Explanation - Transistors

**Bipolar Transistor Part No. Explanation**

**Part No.**

Example: 2SC2412K

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Tape code</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>T1</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>412</td>
<td>46</td>
</tr>
<tr>
<td>K</td>
<td>R</td>
</tr>
</tbody>
</table>

**Code**

- hFE: FE
- Package

Code | Package
---|---
M | SOT-723
EB | SOT-416FL
E | SOT-416
UB | SOT-323FL
U | SOT-323
K | SOT-346
R | SOT-346T
P | SOT-89
P5 | SOT-89
D | TO-252(CPT)
D3 | TO-252

**hFE Ranking Code**

- Code:
  - N: 56 to 120
  - P: 82 to 180
  - Q: 120 to 270
  - R: 180 to 390
  - S: 270 to 560
  - V: 820 to 1800
  - W: 1200 to 2700

**Example: 2C S 2412K**

- Example: 2S R523EBTL
  - 2: Digital Transistor
  - S: General use
  - R: Exponent Specification
  - 5: General use
  - 2: Low VCE(sat) 12V
  - 3: Muting 20V
  - EB: Muting Via 4V
  - TL: Tape code

**Digital Transistor Part No. Explanation**

**Example:**

- Digital Transistor
- DT: General use
- 1: Exponent of R1 resistance value
- 0: Suffix
- 1: Package
- 4: Tape code

- 24: Digital Transistor
- 1: Polarity
- 2: Basic R resistance value
- 4: Resistance Ratio R1/R2
- K: Suffix
- A: Only for 100mA series in SOT-323 (UMT3), SOT-23 (SST3) and SOT-346 (SMT3)
- T: Note: ② and ③ together represent the R1 resistance value
- 1: Example
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