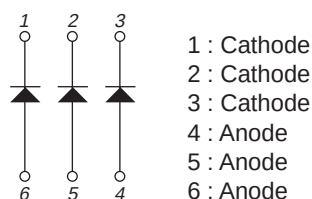


**SANYO****FC903**

Silicon Epitaxial Planar Type

**High-Speed Switching Composite Diode****Features**

- Composite type with 3 diodes contained in the CP package currently in use, improving the mounting efficiency greatly.
- The FC903 is formed with 3 chips, each being equivalent to the DSB010, placed in one package.
- High switching speed.

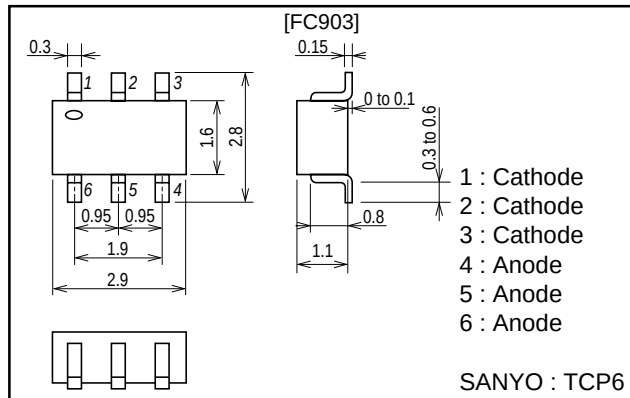
**Electrical Connection****Specifications****Absolute Maximum Ratings at Ta=25°C**

| Parameter                   | Symbol    | Conditions  | Ratings       | Unit |
|-----------------------------|-----------|-------------|---------------|------|
| Peak Reverse Voltage        | $V_{RM}$  |             | 85            | V    |
| Reverse Voltage             | $V_R$     |             | 80            | V    |
| Peak Forward Current        | $I_{FM}$  |             | 300           | mA   |
| Average Rectified Current   | $I_O$     |             | 100           | mA   |
| Surge Forward Current       | $I_{FSM}$ | 1μs         | 4             | A    |
| Allowable Power Dissipation | P         | Total value | 300           | mW   |
| Junction Temperature        | Tj        |             | 125           | °C   |
| Storage Temperature         | Tstg      |             | - 55 to + 125 | °C   |

**Package Dimensions**

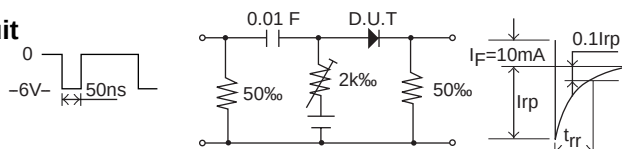
unit : mm

1296

**Electrical Characteristics at Ta=25°C**

| Parameter                 | Symbol   | Conditions                                      | Ratings |      |     | Unit |
|---------------------------|----------|-------------------------------------------------|---------|------|-----|------|
|                           |          |                                                 | min     | typ  | max |      |
| Forward Voltage           | $V_{F1}$ | $I_F=1mA$                                       |         | 0.60 |     | V    |
|                           | $V_{F2}$ | $I_F=10mA$                                      |         | 0.72 |     | V    |
|                           | $V_{F3}$ | $I_F=100mA$                                     |         |      | 1.2 | V    |
| Reverse Current           | $I_{R1}$ | $V_R=30V$                                       |         |      | 0.1 | μA   |
|                           | $I_{R2}$ | $V_R=80V$                                       |         |      | 0.5 | μA   |
| Interterminal Capacitance | C        | $V_R=0, f=1MHz$                                 |         |      | 3.0 | pF   |
| Reverse Recovery Time     | $t_{rr}$ | $I_F=10mA, V_R=6V, R_L=50\Omega, I_{rr}=0.1I_p$ |         |      | 4.0 | ns   |

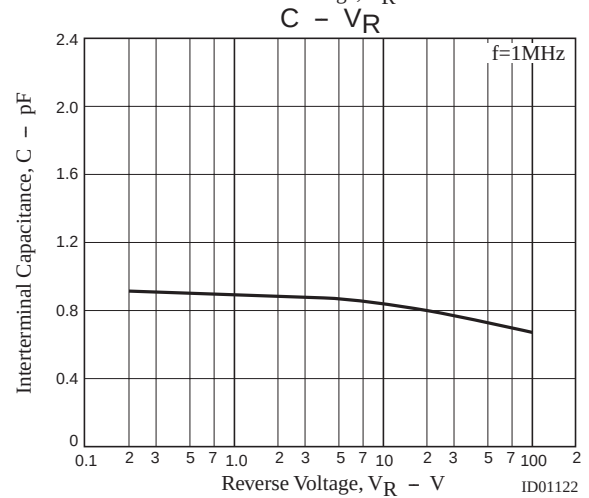
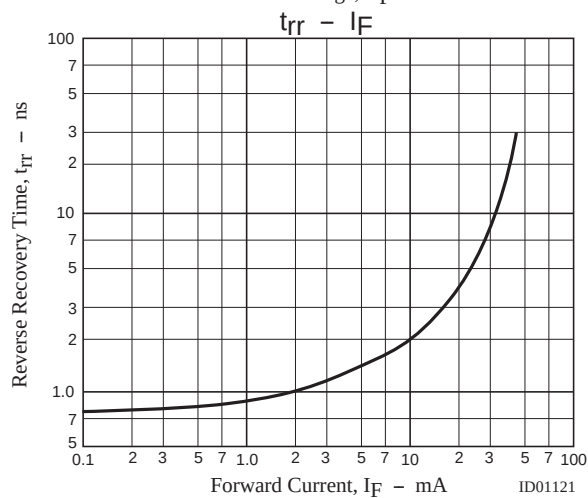
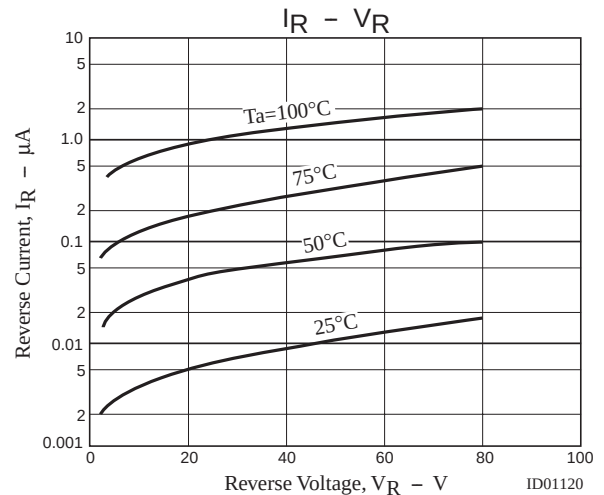
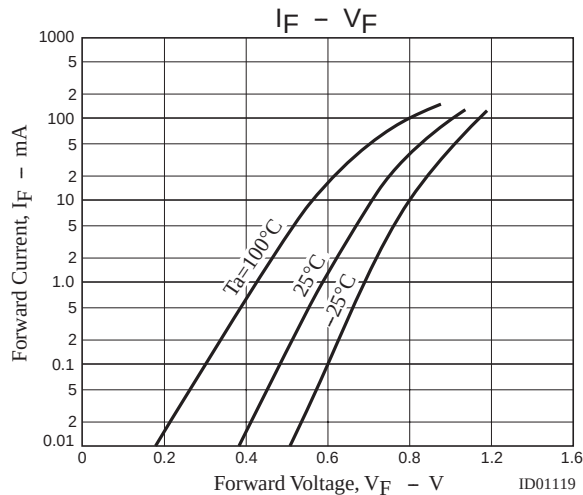
Note : The specifications shown above are for each individual diode. Marking : 903

 **$t_{rr}$  Test Circuit**

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