

1N4148  
 1S SERIES  
 1SS SERIES

## 开关二极管 SWITCHING DIODES

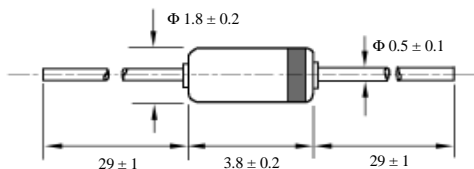
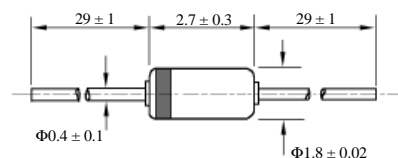
### 1. 普通开关二极管 SWITCHING DIODES

最大额定 ABSOLUTE MAXIMUM RATINGS

| TYPE   | $V_{RM}(V)$ | $V_R(V)$ | $I_F(mA)$ | $I_O(mA)$ | $I_{FS(mA)1\text{Sec}}$ | P(mw) | $T_J(^{\circ}C)$ | $T_{stg}(^{\circ}C)$ | 外型尺寸 Package (mm) |
|--------|-------------|----------|-----------|-----------|-------------------------|-------|------------------|----------------------|-------------------|
| 1N4148 | 100         | 75       | 450       | 150       | 700                     | 500   | 175              | -65~+175             | DO-35             |
| 1S1553 | 70          | 60       | 300       | 100       | 1000                    | 400   | 150              | -65~+150             |                   |
| 1S1555 | 35          | 30       | 300       | 100       | 1000                    | 400   | 150              | -65~+150             |                   |
| 1SS133 | 90          | 80       | 400       | 130       | 600                     | 300   | 175              | -65~+175             | DO-34             |
| 1SS176 | 35          | 30       | 300       | 100       | 1000                    |       | 175              | -65~+175             |                   |
| 1SS270 | 30          | 30       | 450       | 150       | 1000                    | 300   | 175              | -65~+175             |                   |

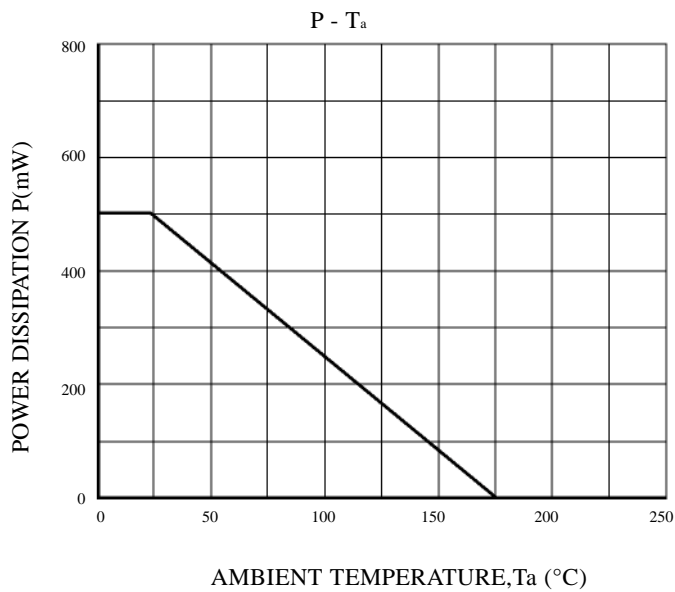
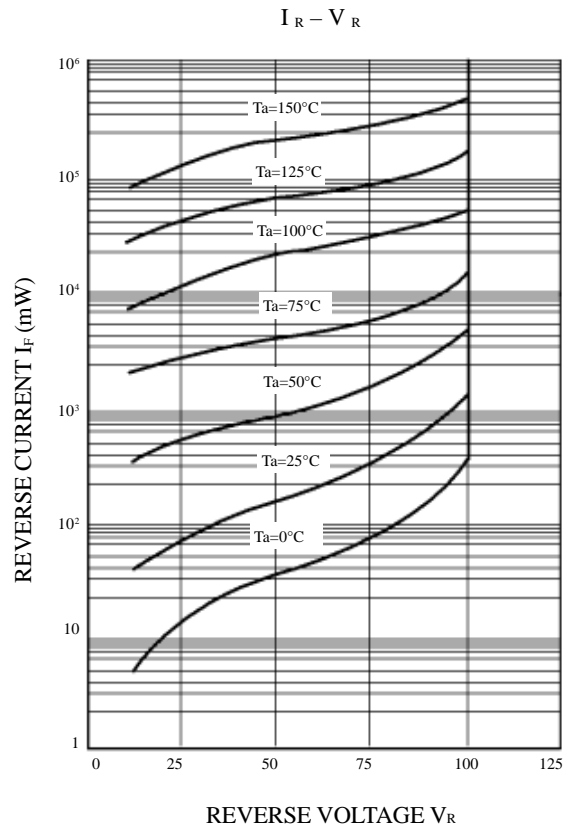
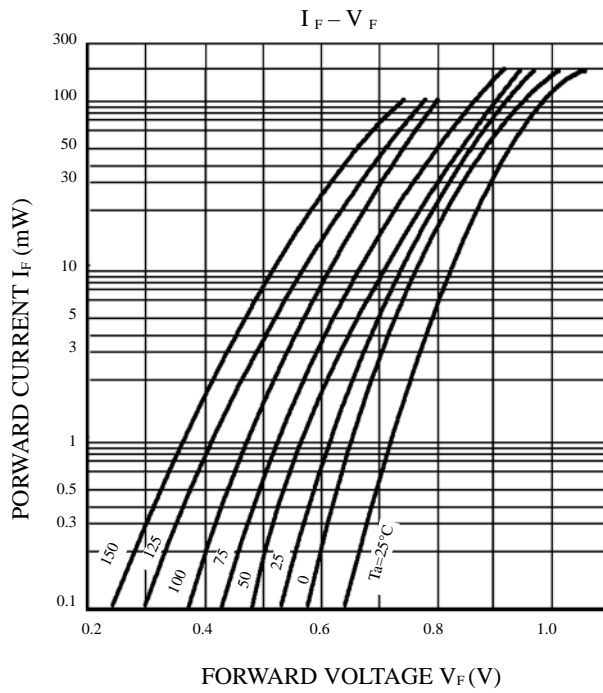
电气特性 ELECTRICAL CHARACTERISTICS

| TYPE   | $V_{FMAX}(V)$         | $V_{(BR)R}(V)_{Min}$ |                  | $I_{RMax}(\mu A)$    |                  | $C_t(pF)_{max}$         | $T_{rr}(ns)$                                 |
|--------|-----------------------|----------------------|------------------|----------------------|------------------|-------------------------|--|
|        |                       | @ $I_R=5\mu A$       | @ $I_R=100\mu A$ | @ $V_R=20V$          | @ $V_R=75V$      |                         |  |
| 1N4148 | @ $I_F=100mA$<br>1.20 | 75                   | 100              | @ $V_R=20V$<br>0.025 | @ $V_R=75V$<br>5 | @ $V_R=0 f=1MHz$<br>4   | $V_R=6V I_F=100mA$<br>$R_L=100\Omega$<br>4   |
| 1S1553 | @ $I_F=100mA$<br>1.4  |                      |                  | @ $V_R=60V$<br>0.5   |                  | @ $V_R=0 f=1MHz$<br>3.5 |  |
| 1S1555 | @ $I_F=100mA$<br>1.4  |                      |                  | @ $V_R=30V$<br>0.5   |                  | @ $V_R=0 f=1MHz$<br>3.5 |  |
| 1SS133 | @ $I_F=100mA$<br>1.2  |                      |                  | @ $V_R=80V$<br>0.5   |                  | @ $V_R=0 f=1MHz$<br>2   | $V_R=6V I_F=100mA$<br>$R_L=100\Omega$<br>4   |
| 1SS176 | @ $I_F=100mA$<br>1.2  |                      |                  | @ $V_R=30V$<br>0.5   |                  | @ $V_R=0 f=1MHz$<br>3   | $V_R=6V I_F=100mA$<br>$R_L=100\Omega$<br>4   |
| 1SS270 | @ $I_F=100mA$<br>0.8  |                      |                  | @ $V_R=30V$<br>1     |                  | @ $V_R=0 f=1MHz$<br>3   | $V_R=6V I_F=100mA$<br>$R_L=100\Omega$<br>3.5 |


 DO-35  
(mm)

 DO-34  
(mm)

# 1N4148 特性曲线

## 1N4148 RATING AND CHARACTERISTIC CURVES



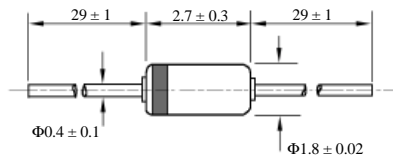
## 2. 电调(频带)开关二极管 BAND SWITCHING DIODES

最大额定 ABSOLUTE MAXIMUM RATINGS

| TYPE   | $V_{RM}$ (V) | $I_F$ (mA) | $I_O$ (mA) | P (mW) | $T_j$ (°C) | $T_{stg}$ (°C) | Package |
|--------|--------------|------------|------------|--------|------------|----------------|---------|
| ISS110 | 35           | 100        |            | 150    | 125        | -55~+125       | DO-34   |
| ISS265 | 35           |            | 100        | 150    | 125        | -55~+125       |         |

电气特性 ELECTRICAL CHARACTERISTICS

| TYPE   | $V_{FMAX}$ (v)      | $V_{(BR)R}$ (v) Min    | $I_{RMax}$ (μA)    | $C_t$ (pF) max          | $R_f$ (Ω) max                   | $L_s$ (nH)        |
|--------|---------------------|------------------------|--------------------|-------------------------|---------------------------------|-------------------|
| ISS110 | @ $I_F=10mA$<br>1.0 | @ $I_R=10 \mu A$<br>35 | @ $V_R=25V$<br>0.1 | @ $V_R=0 f=1MHz$<br>1.2 | $I_F=2mA$<br>$f=100MHz$<br>0.9  | @ $f=250MHz$<br>3 |
| ISS265 | @ $I_F=10mA$<br>1.0 |                        | @ $V_R=20V$<br>0.1 | @ $V_R=0 f=1MHz$<br>1.5 | $I_F=10mA$<br>$f=100MHz$<br>0.6 |                   |



DO-34  
(mm)