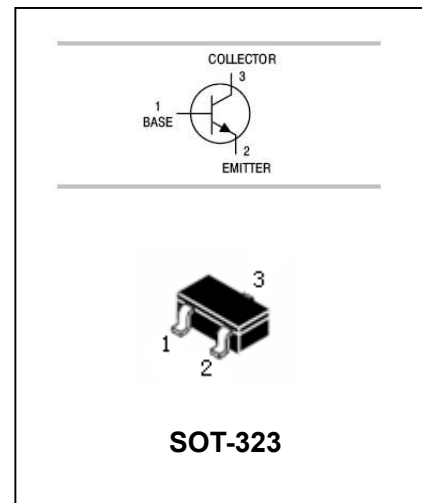


NPN Silicon Epitaxial Planar Transistor

2PD601AW

FEATURES

- Collector Current.($I_C=100\text{mA}$)
- Excellent H_{FE} Linearity.
- Power dissipation.($P_C=200\text{mW}$)



APPLICATIONS

- General purpose application.

ORDERING INFORMATION

| Type No. | Marking | Package Code |
|-----------|----------|--------------|
| 2PD601AW□ | 6D/6E/6F | SOT-323 |

□: none is for Lead Free package;
“G” is for Halogen Free package.

MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

| Symbol | Parameter | Value | Units |
|----------------|----------------------------------|-------------|------------------|
| V_{CBO} | Collector-Base Voltage | 60 | V |
| V_{CEO} | Collector-Emitter Voltage | 50 | V |
| V_{EBO} | Emitter-Base Voltage | 6 | V |
| I_C | Collector Current -Continuous | 100 | mA |
| P_C | Collector Dissipation | 200 | mW |
| T_j, T_{stg} | Junction and Storage Temperature | -55 to +150 | $^\circ\text{C}$ |

NPN Silicon Epitaxial Planar Transistor

2PD601AW

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|--------------------------------------|---------------|------------------------|-----|-----|------|---------|
| Collector-base breakdown voltage | $V_{(BR)CBO}$ | $I_C=100\mu A, I_E=0$ | 60 | | | V |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C=1mA, I_B=0$ | 50 | | | V |
| Emitter-base breakdown voltage | $V_{(BR)EBO}$ | $I_E=100\mu A, I_C=0$ | 6 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB}=60V, I_E=0$ | | | 0.01 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB}=5V, I_C=0$ | | | 0.01 | μA |
| DC current gain | h_{FE} | $V_{CE}=10V, I_C=2mA$ | | | | |
| | | 2PD601AQW | 160 | | 260 | |
| | | 2PD601ARW | 210 | | 340 | |
| | | 2PD601ASW | 290 | | 460 | |
| | | $V_{CE}=2V, I_C=100mA$ | 90 | | | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C=100mA, I_B=10mA$ | | | 0.5 | V |
| Transition frequency | f_T | $V_{CE}=6V, I_C=2mA$ | | | | |
| | | $f=100MHz$ 2PD601AQW | 100 | | | MHz |
| | | 2PD601ARW | 120 | | | |
| 2PD601ASW | 140 | | | | | |

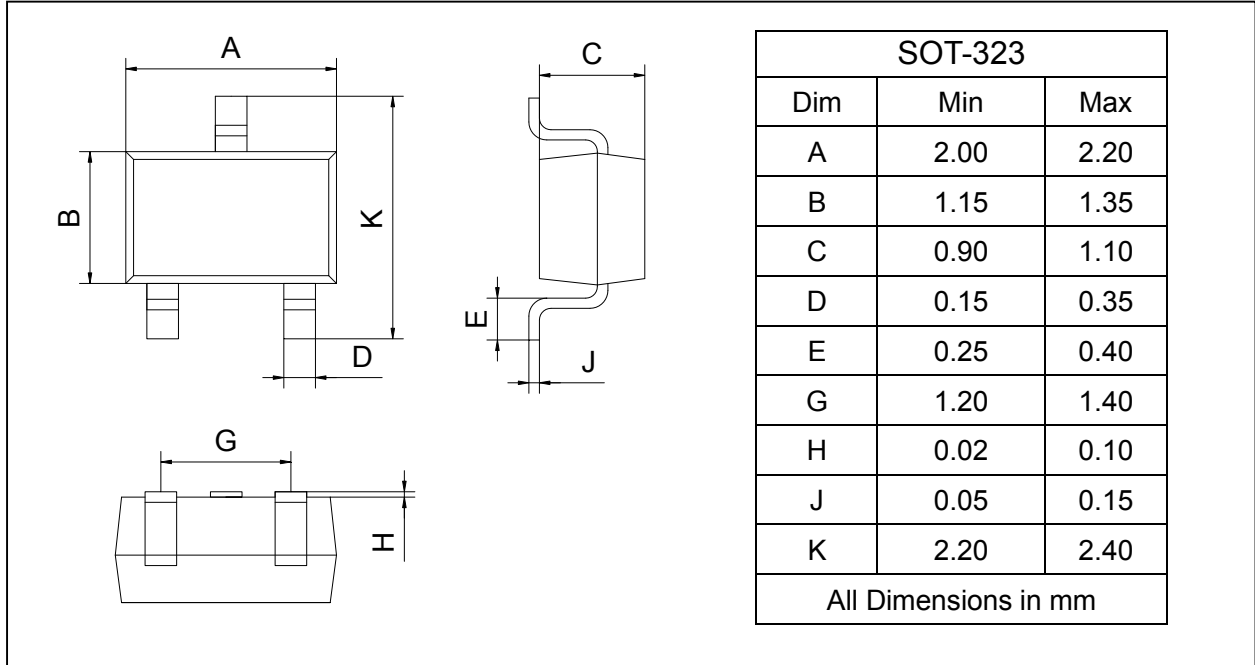
NPN Silicon Epitaxial Planar Transistor

2PD601AW

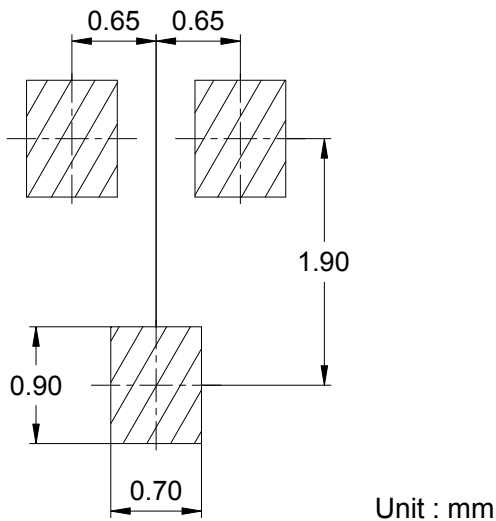
PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



SOLDERING FOOTPRINT



PACKAGE INFORMATION

| Device | Package | Shipping |
|----------|---------|----------------|
| 2PD601AW | SOT-323 | 3000/Tape&Reel |