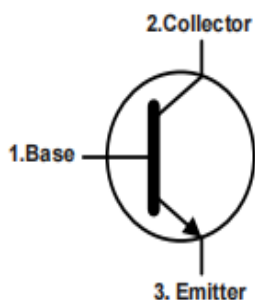


NPN Transistor

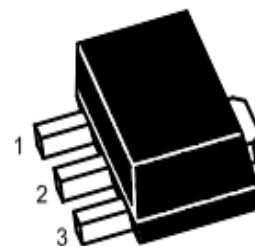
Features

- High voltage
- Excellent hFE characteristics

Equivalent Circuit



SOT-89



1.Base 2.Collector 3. Emitter

Marking Code :

2SC4373 -O : CO

2SC4373 -Y : CY

Absolute Maximum Ratings

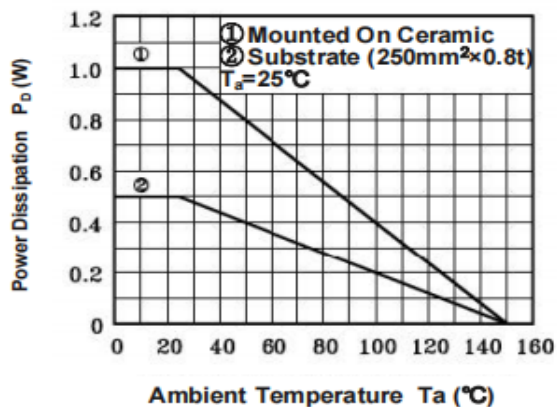
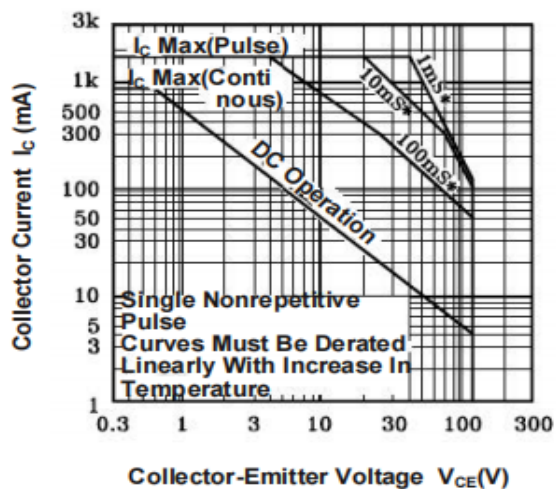
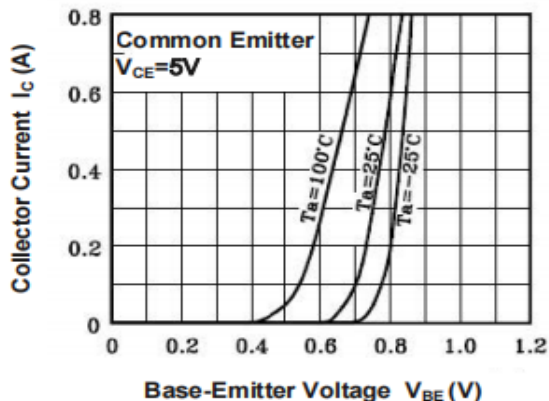
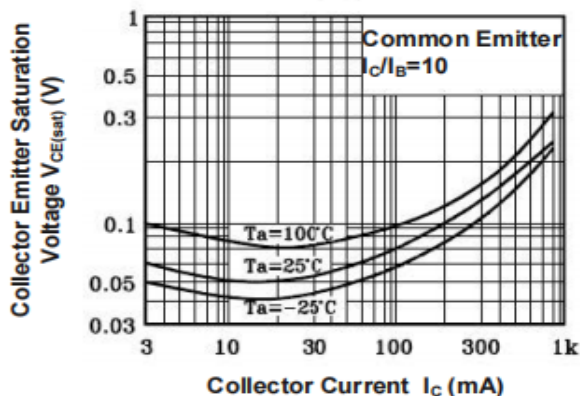
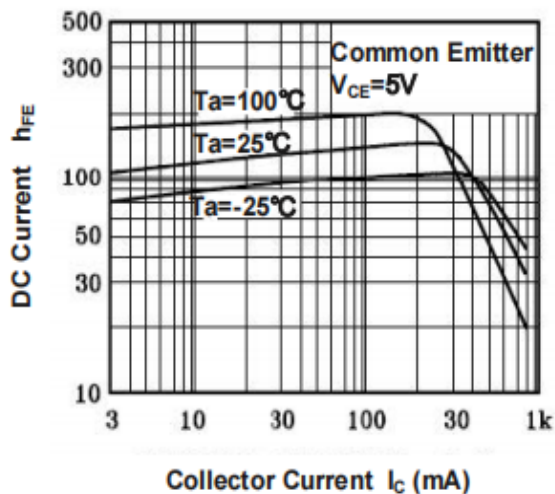
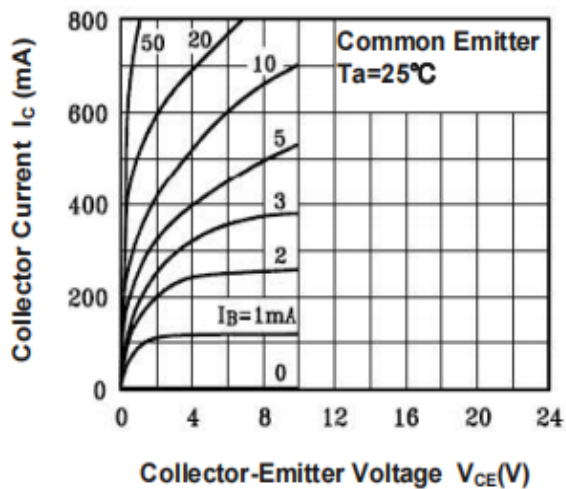
Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter | Symbol | Value | Unit |
|---------------------------|-----------|-------------|------|
| Collector Base Voltage | V_{CBO} | 120 | V |
| Collector Emitter Voltage | V_{CEO} | 120 | V |
| Emitter Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 0.8 | A |
| Maximum Power Dissipation | P_D | 0.5 | W |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature Range | T_{STG} | -55 to +150 | °C |

Electrical Characteristics (T_A=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|--|---------------------------|-----------|--------|------------|------|
| DC Current Gain at V _{CE} = 5 V, I _C = 100 mA Current Gain Group | O Y H _{FE} | 80 120 | – – | 160 240 | – |
| Collector Base Cutoff Current at V _{CB} = 120V | I _{CBO} | – | – | 100 | nA |
| Emitter Base Cutoff Current at V _{EB} = 5 V | I _{EBO} | – | – | 100 | nA |
| Collector Base Breakdown Voltage at I _C = 0.1 mA | V _{(BR)CBO} | 120 | – | – | V |
| Collector Emitter Breakdown Voltage at I _C = 1 mA | V _{(BR)CEO} | 120 | – | – | V |
| Emitter Base Breakdown Voltage at I _E = 0.1 mA | V _{(BR)EBO} | 5 | – | – | V |
| Collector Emitter Saturation Voltage at I _C = 500 mA, I _B = 50 mA | V _{CE(sat)} | – | – | 1 | V |
| Collector Emitter On Voltage at V _{CE} = 5 V, I _C = 500 mA | V _{CE(on)} | – | – | 1 | V |
| Transition Frequency at V _{CE} = 5 V, I _C = 500 mA | F _T | – | 120 | – | MHz |
| Output Capacitance at V _{CB} = 10 V, I _E = 0, f = 1 MHz | C _{ob} | – | – | 30 | pF |

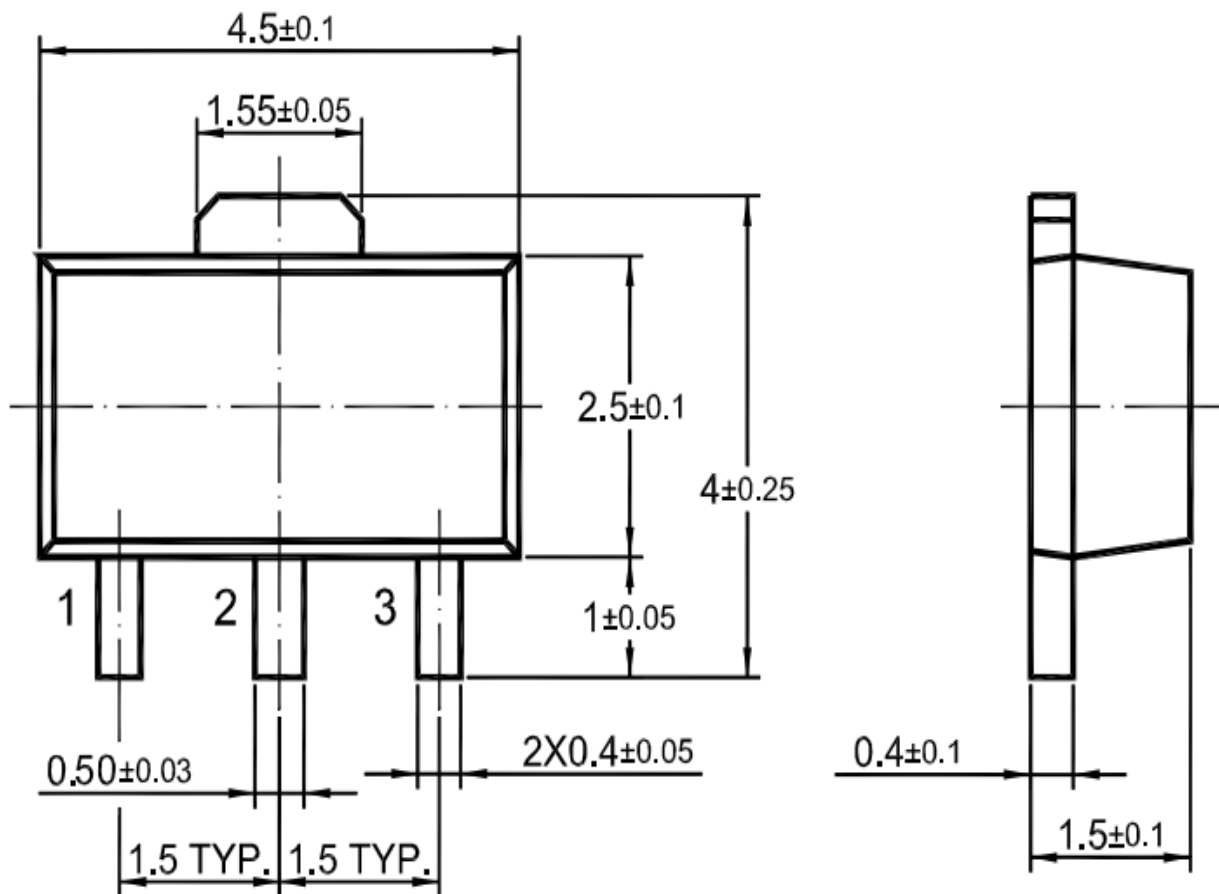
Typical Characteristic Curves



Package Outline

SOT-89

Dimensions in mm

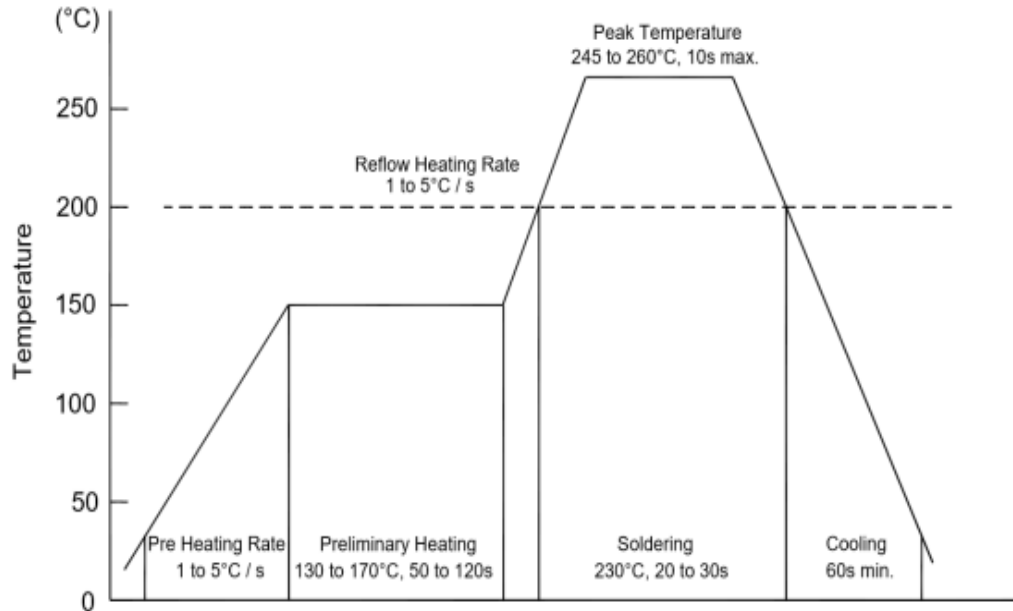


Ordering Information

| Device | Package | Shipping |
|---------|---------|------------------------|
| 2SC4373 | SOT-89 | 1,000PCS/Reel&7inches |
| | | 3,000PCS/Reel&13inches |

Conditions of Soldering and Storage

◆ Recommended condition of reflow soldering



Recommended peak temperature is over 245 °C. If peak temperature is below 245 °C, you may adjust the following parameters:

- Time length of peak temperature (longer)
- Time length of soldering (longer)
- Thickness of solder paste (thicker)

◆ Conditions of hand soldering

- Temperature: 370 °C
- Time: 3s max.
- Times: one time

◆ Storage conditions

- **Temperature**
5 to 40 °C
- **Humidity**
30 to 80% RH
- **Recommended period**
One year after manufacturing