

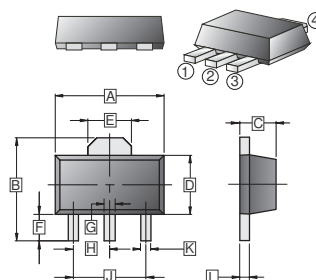
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Small Flat Package.
- Large Current Capacity.

## SOT-89



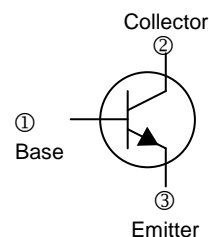
## CLASSIFICATION OF $h_{FE}$

|              |           |           |
|--------------|-----------|-----------|
| Product-Rank | 2SC4373-O | 2SC4373-Y |
| Range        | 80~160    | 120~240   |
| Marking      | CO        | CY        |

## PACKAGE INFORMATION

|         |     |             |
|---------|-----|-------------|
| Package | MPQ | Leader Size |
| SOT-89  | 1K  | 7 inch      |

| REF. | Millimeter |      | REF. | Millimeter |      |
|------|------------|------|------|------------|------|
|      | Min.       | Max. |      | Min.       | Max. |
| A    | 4.40       | 4.60 | G    | 0.40       | 0.58 |
| B    | 3.94       | 4.25 | H    | 1.50       | TYP  |
| C    | 1.40       | 1.60 | J    | 3.00       | TYP  |
| D    | 2.30       | 2.60 | K    | 0.32       | 0.52 |
| E    | 1.50       | 1.70 | L    | 0.35       | 0.44 |
| F    | 0.89       | 1.20 |      |            |      |



## ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

| Parameter                              | Symbol          | Rating       | Unit                        |
|--|-----------------|--------------|-----------------------------|
| Collector to Base Voltage              | $V_{CBO}$       | 120          | V                           |
| Collector to Emitter Voltage           | $V_{CEO}$       | 120          | V                           |
| Emitter to Base Voltage                | $V_{EBO}$       | 5            | V                           |
| Continuous Collector Current           | $I_C$           | 800          | mA                          |
| Collector Power Dissipation            | $P_C$           | 500          | mW                          |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 250          | $^\circ\text{C} / \text{W}$ |
| Junction, Storage Temperature          | $T_J, T_{STG}$  | 150, -55~150 | $^\circ\text{C}$            |

## ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

| Parameter                               | Symbol        | Min | Typ | Max | Unit          | Test condition                            |
|---|---------------|-----|-----|-----|---------------|---|
| Collector to Base Breakdown Voltage     | $V_{(BR)CBO}$ | 120 | -   | -   | V             | $I_C=1\text{mA}, I_E=0$                   |
| Collector to Emitter Breakdown Voltage  | $V_{(BR)CEO}$ | 120 | -   | -   | V             | $I_C=10\text{mA}, I_B=0$                  |
| Emitter to Base Breakdown Voltage       | $V_{(BR)EBO}$ | 5   | -   | -   | V             | $I_E=1\text{mA}, I_C=0$                   |
| Collector Cut-Off Current               | $I_{CBO}$     | -   | -   | 0.1 | $\mu\text{A}$ | $V_{CB}=120\text{V}, I_E=0$               |
| Emitter Cut-Off Current                 | $I_{EBO}$     | -   | -   | 0.1 | $\mu\text{A}$ | $V_{EB}=5\text{V}, I_C=0$                 |
| DC Current Gain                         | $h_{FE}$      | 80  | -   | 240 |               | $V_{CE}=5\text{V}, I_C=100\text{mA}$      |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | -   | -   | 1   | V             | $I_C=500\text{mA}, I_B=50\text{mA}$       |
| Base to emitter Voltage                 | $V_{BE}$      | -   | -   | 1   | V             | $V_{CE}=5\text{V}, I_C=500\text{mA}$      |
| Transition Frequency                    | $f_T$         | -   | 120 | -   | MHz           | $V_{CE}=5\text{V}, I_C=500\text{mA}$      |
| Collector Output Capacitance            | $C_{ob}$      | -   | -   | 30  | pF            | $V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$ |