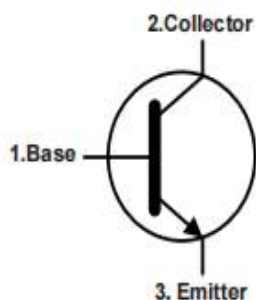


NPN Transistor

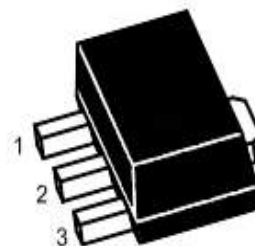
Features

- 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

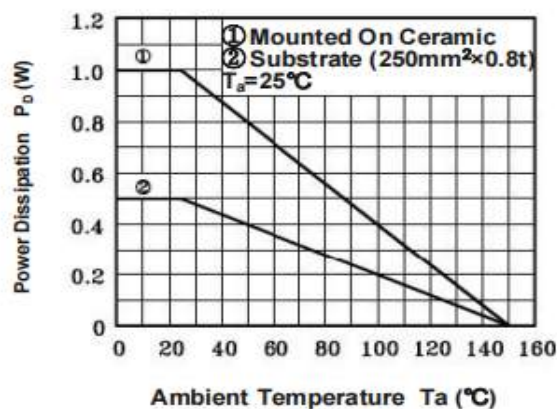
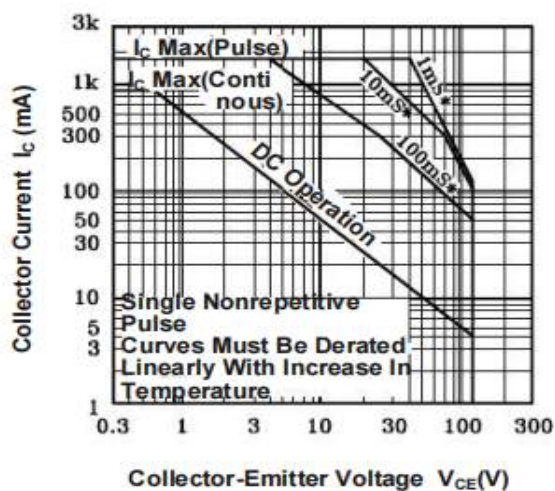
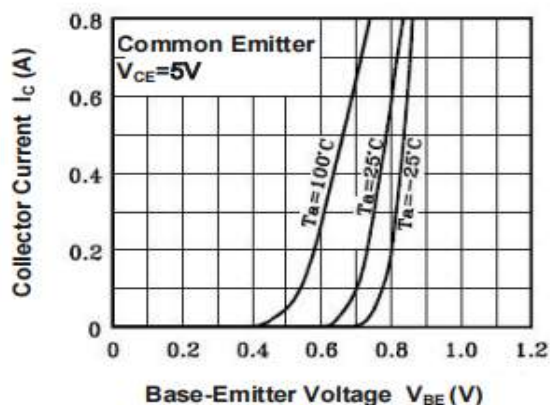
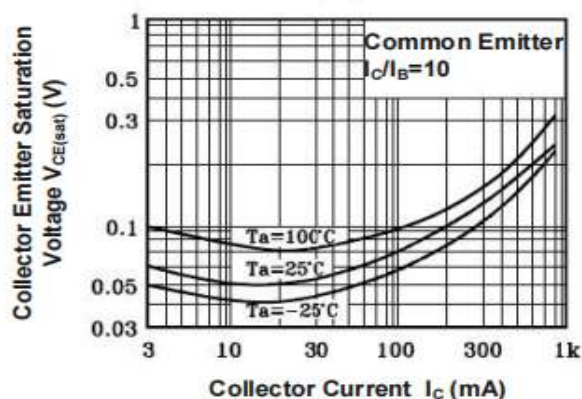
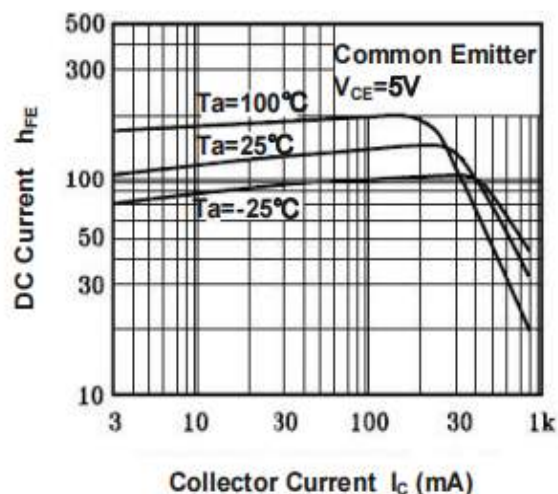
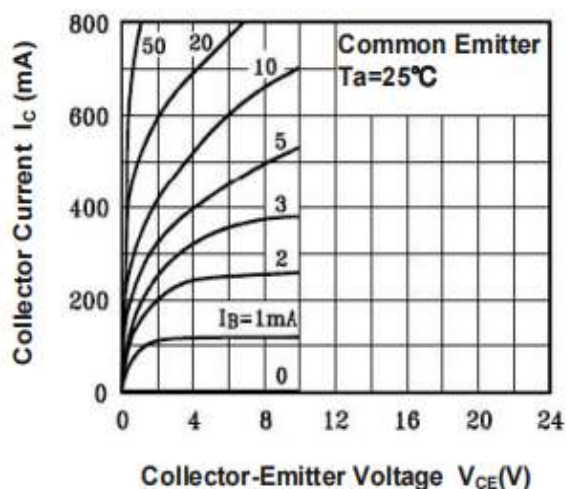
Ratings at 25°C ambient temperature unless otherwise specified.

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

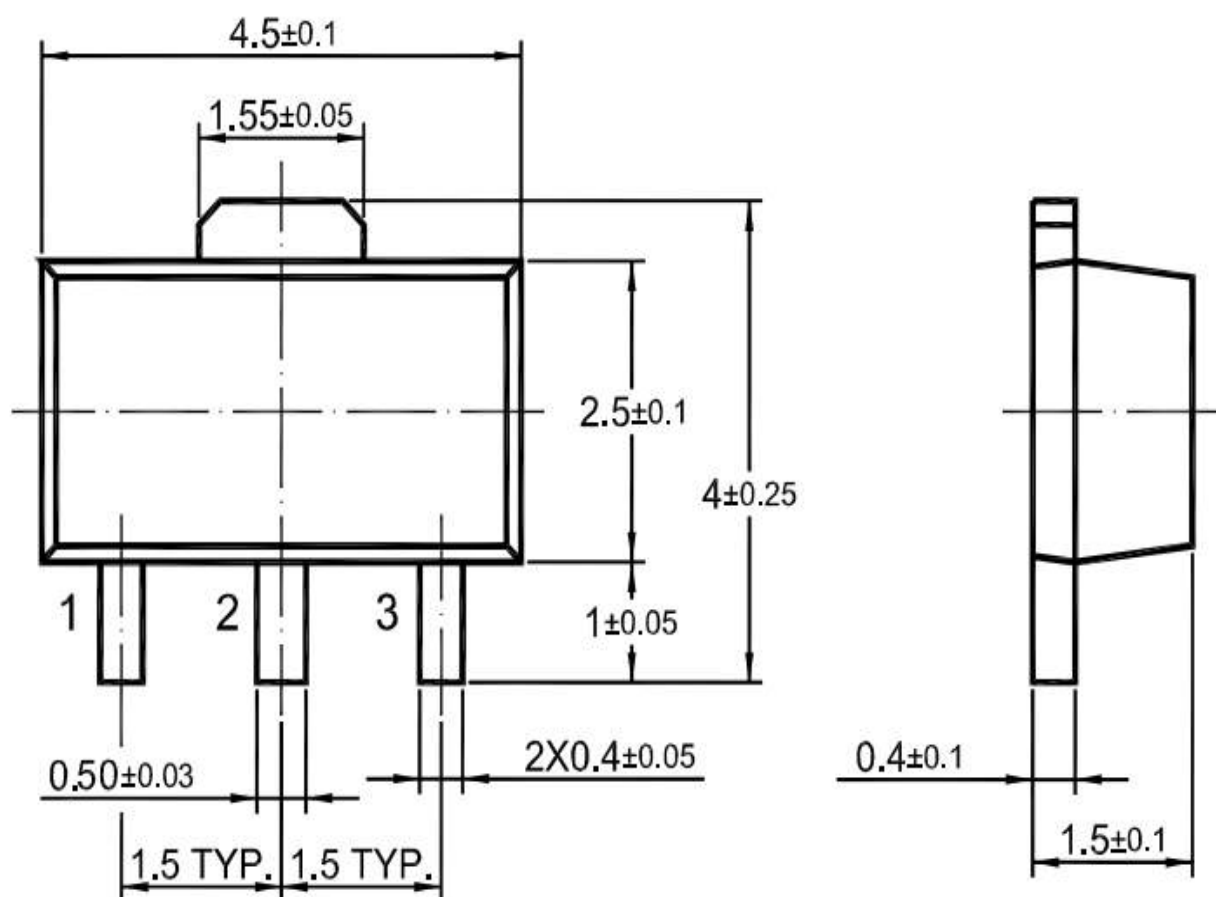
Typical Characteristic Curves



Package Outline

SOT-89

Dimensions in mm

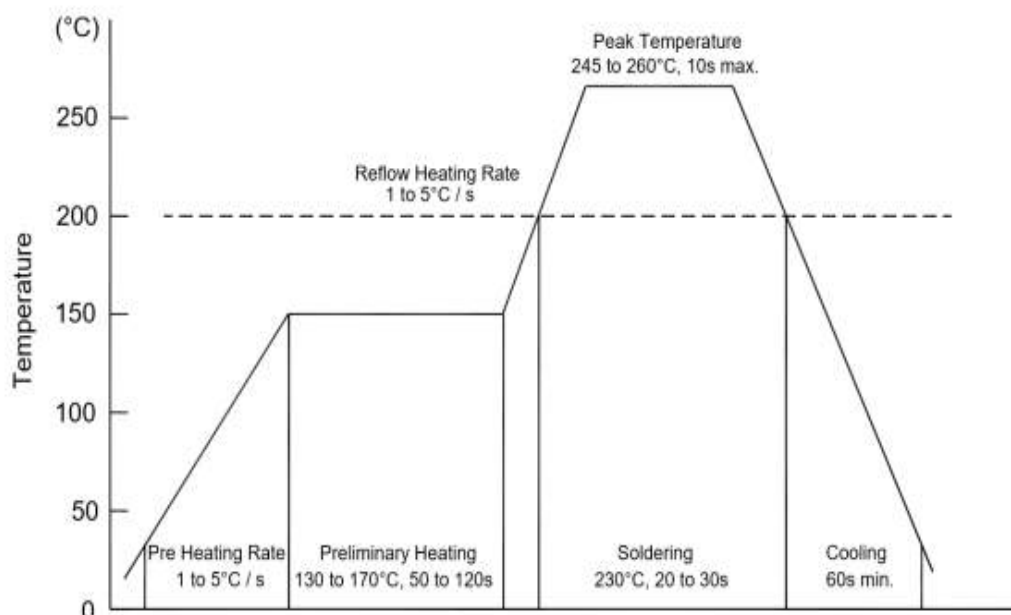


Ordering Information

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