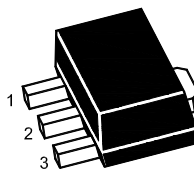


### NPN Silicon Epitaxial Planar Transistor

for general purpose applications



1.Base 2.Collector 3.Emitter  
SOT-89 Plastic Package

#### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Collector Base Voltage	$V_{CBO}$	80	V
Collector Emitter Voltage	$V_{CEO}$	80	V
Emitter Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	400	mA
Base Current	$I_B$	80	mA
Total Power Dissipation	$P_{tot}$	0.5 1 <sup>1)</sup>	W
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

<sup>1)</sup> When mounted on a 250 mm<sup>2</sup> x 0.8 t ceramic substrate.

#### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $V_{CE} = 2\text{ V}$ , $I_C = 50\text{ mA}$  at $V_{CE} = 2\text{ V}$ , $I_C = 200\text{ mA}$  Collector Base Cutoff Current at $V_{CB} = 80\text{ V}$  Emitter Base Cutoff Current at $V_{EB} = 5\text{ V}$  Collector Emitter Breakdown Voltage at $I_C = 10\text{ mA}$  Collector Emitter Saturation Voltage at $I_C = 200\text{ mA}$ , $I_B = 20\text{ mA}$  Base Emitter Voltage at $V_{CE} = 2\text{ V}$ , $I_C = 5\text{ mA}$  Transition Frequency at $V_{CE} = 10\text{ V}$ , $I_C = 10\text{ mA}$  Collector Output Capacitance at $V_{CB} = 10\text{ V}$ , $f = 1\text{ MHz}$	Current Gain Group O Y	$h_{FE}$	70	-	140	-
		$h_{FE}$	120	-	240	-
		$h_{FE}$	50	-	-	-
	$I_{CBO}$	-	-	100	nA	
	$I_{EBO}$	-	-	100	nA	
	$V_{(BR)CEO}$	80	-	-	V	
	$V_{CE(sat)}$	-	-	0.4	V	
	$V_{BE(on)}$	0.55	-	0.8	V	
	$f_T$	-	100	-	MHz	
	$C_{ob}$	-	10	-	pF	



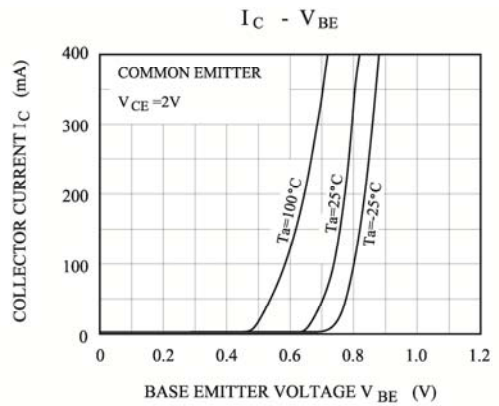
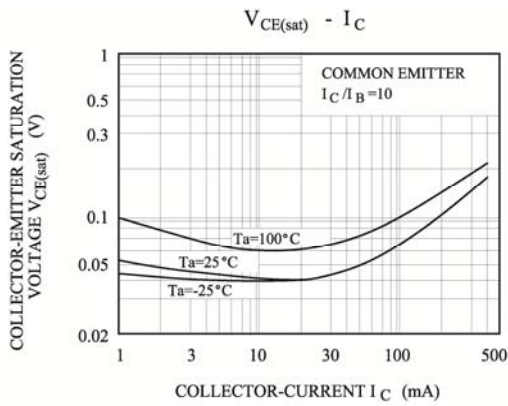
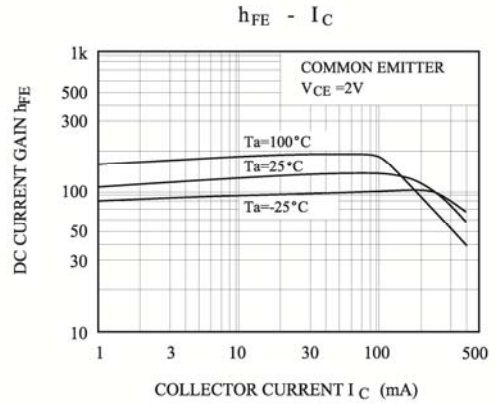
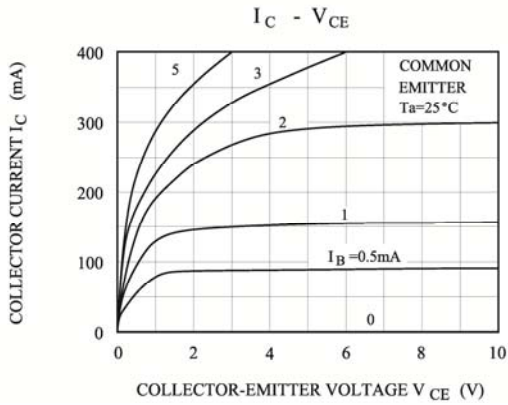
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# SOT-89

## 2SC4374U



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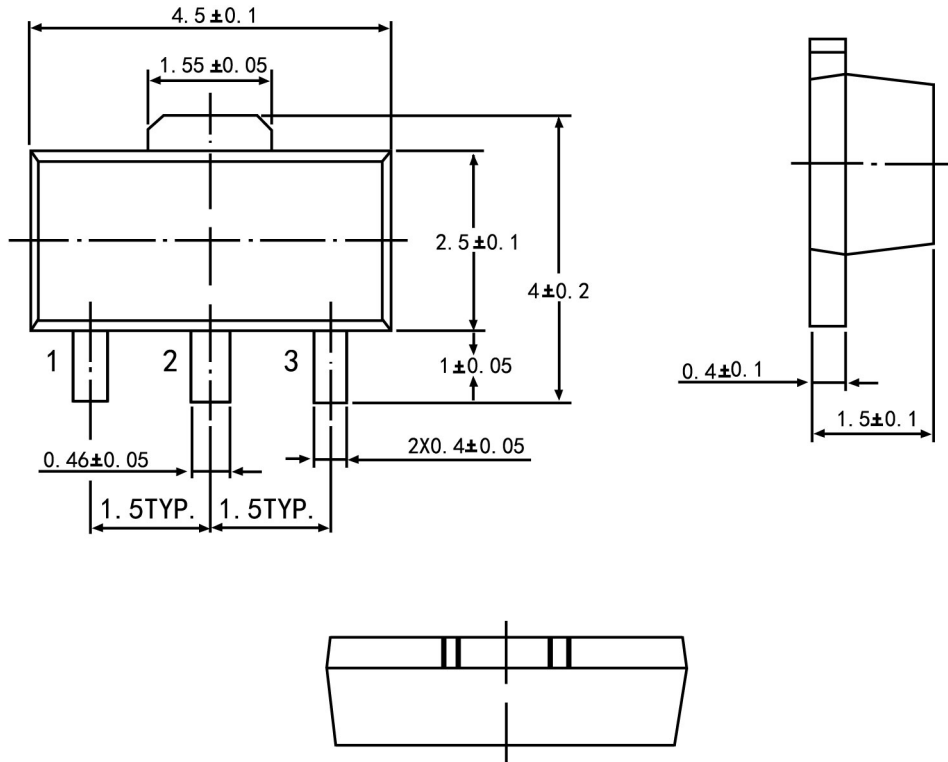
# SOT-89

## 2SC4374U



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### SOT-89 PACKAGE OUTLINE



Symbol	Dimension in Millimeters	
	Min	Max
A	1.40	1.60
B	0.44	0.62
B1	0.35	0.54
C	0.35	0.44
D	4.40	4.60
D1	1.62	1.83
E	2.29	2.60
e	1.50 Typ	
H	3.94	4.25
H1	2.63	2.93
L	0.89	1.20
All Dimensions In mm		