

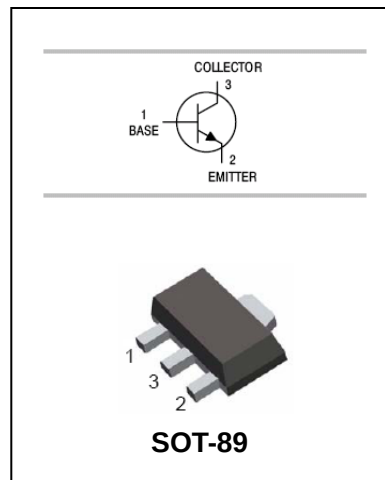
NPN Silicon Epitaxial Planar Transistor

2SC4374

FEATURES

- Complementary to 2SA1662
- RoHS compliant with Halogen-free

HF



ORDERING INFORMATION

Type No.	Marking	Package Code
2SC4374-O	EO	SOT-89
2SC4374-Y	EY	SOT-89

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	80	V
V_{CEO}	Collector-Emitter Voltage	80	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	0.4	A
P_C	Collector Power Dissipation	500	mW
T_j, T_{stg}	Junction and Storage Temperature	-55 to +150	°C

NPN Silicon Epitaxial Planar Transistor

2SC4374

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	80			V
Collector- emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	80			V
Emitter- base breakdown voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=80V, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$			0.1	μA
DC current gain	h_{FE}	$V_{CE}=2V, I_C=50mA$	70		240	
		$V_{CE}=2V, I_C=200mA$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=200mA, I_B=20mA$			0.4	V
Base-emitter	V_{BE}	$V_{CE}=-2V, I_C=5mA$	0.55		0.8	V
Transition frequency	f_T	$V_{CE}=10V, I_C=10mA$		120		MHz
Collector output capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$		14		pF

CLASSIFICATION OF h_{FE}

Rank	O	Y
Range	70-140	120-240
Marking	EO	EY

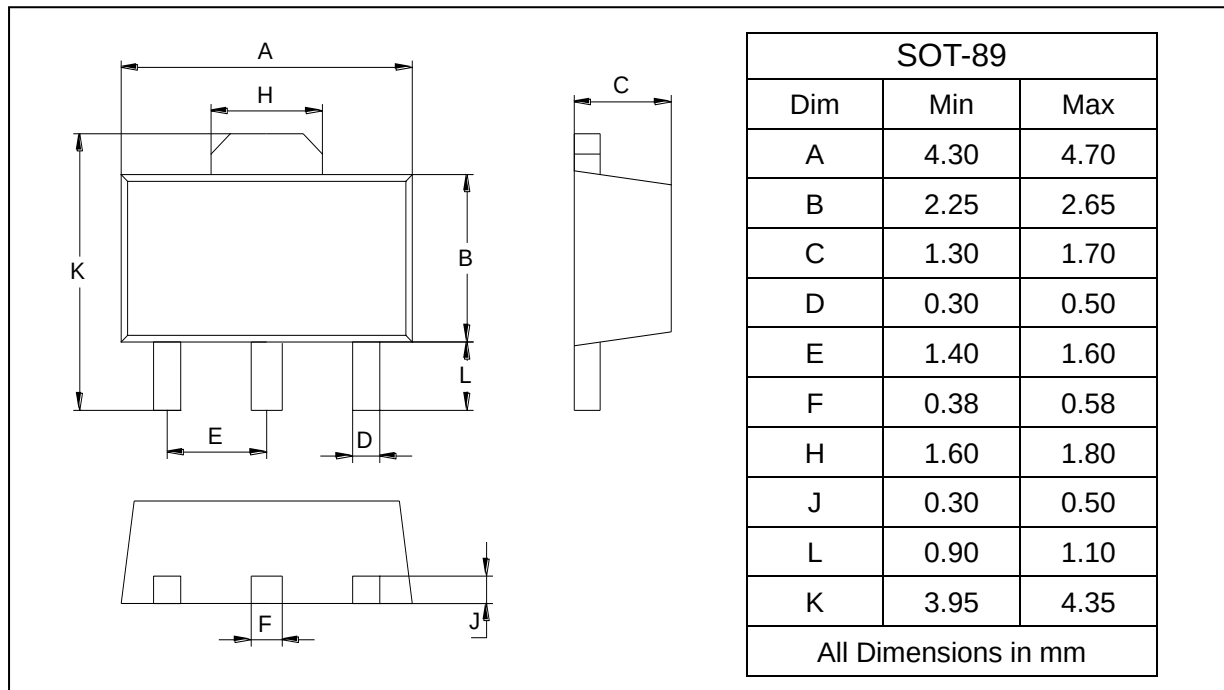
NPN Silicon Epitaxial Planar Transistor

2SC4374

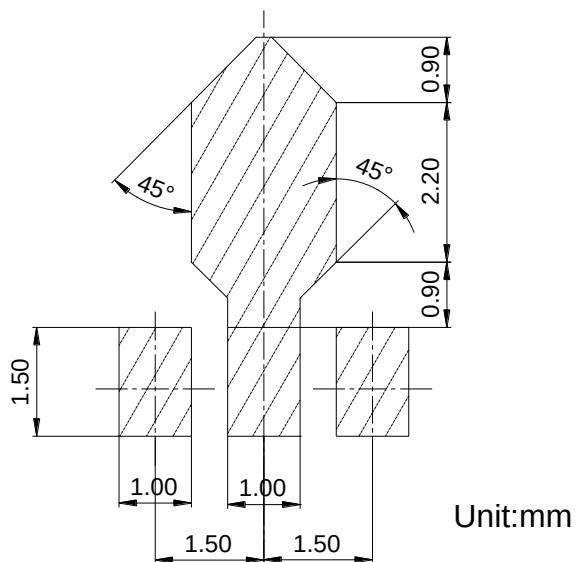
PACKAGE OUTLINE

Plastic surface mounted package

SOT-89



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
2SC4374	SOT-89	1000/Tape&Reel