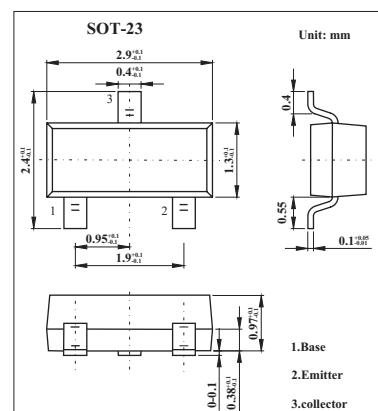


NPN Silicon Epitaxial Transistor**2SC1654****■ Features**

- High Voltage V_{CEO} = 160V
- High DC Current Gain : hFE = 130 Typ. (V_{CE} = 3.0V, I_C = 15mA)

**■ Absolute Maximum Ratings T_a = 25°C**

Parameter	Symbol	Rating	Unit
Collector-Emitter Voltage	V_{CEO}	160	V
Collector-Base Voltage	V_{CBO}	180	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Collector Current- Continuous	I_C	50	mA
Power Dissipation	P_T	150	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

■ Electrical Characteristics T_a = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector Cut-off Current	I_{CBO}	$V_{CB} = 130V$, $I_E = 0$			0.1	μV
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 5.0V$, $I_C = 0$			0.1	μV
DC Current Gain	h_{FE1}	$V_{CE} = 3.0V$, $I_C = 1.0mA$	70	180		
	h_{FE2} *	$V_{CE} = 3.0V$, $I_C = 15mA$	90	200	400	
Collector Saturation Voltage	$V_{CE(sat)}$	$I_C = 50mA$, $I_B = 5.0mA$		0.1	0.3	V
Base Saturation Voltage	$V_{BE(sat)}$	$I_C = 50mA$, $I_B = 5.0mA$		0.73	1.0	V
Gain Bandwidth Product	f_T	$V_{CE} = 10V$, $I_E = -10mA$		120		MHz
Output Capacitance	C_{OB}	$V_{CB} = 10V$, $I_E = 0$, $f = 1MHz$		2.3		pF

* Pulse : PW ≤350us, D.C. ≤2%.

■ hFE Classification

Marking	N5	N6	N7
h_{FE2}	90 ~ 180	135 ~ 270	200 ~ 400