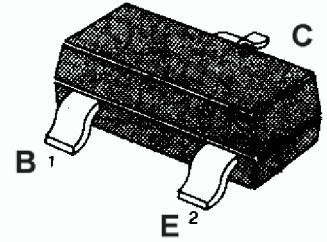


**APPLICATION:** Interface Circuit and Driver Circuit Applications.

**MAXIMUM RATINGS** (Ta=25°C)

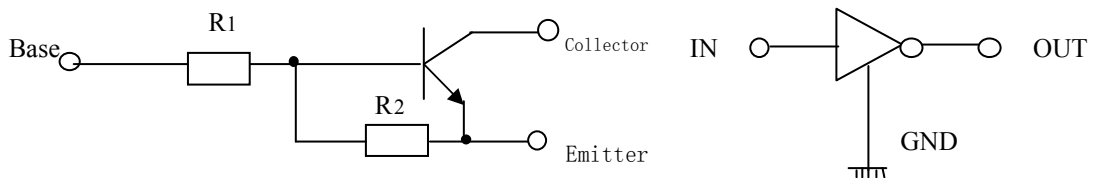
PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CC</sub>	50	V
Collector-emitter voltage	V <sub>IN</sub>	-7~+20	V
Output Current	I <sub>o</sub>	100	mA
	I <sub>C(max)</sub>	100	
Collector Power Dissipation	P <sub>C</sub>	200	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55~150	°C

**SOT-23**


1.Base 2 .Emitter 3 .Collector

**ELECTRICAL CHARACTERISTICS** (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h <sub>FE</sub>	30				V <sub>o</sub> = 5V, I <sub>o</sub> = 10mA
Collector-emitter voltage	V <sub>I(off)</sub>			0.3	V	V <sub>CC</sub> = 5V, I <sub>o</sub> = 100μA
	V <sub>I(on)</sub>	2.5				V <sub>o</sub> = 0.3V, I <sub>o</sub> = 20mA
Output Voltage	V <sub>O(on)</sub>		0.1	0.3	V	I <sub>o</sub> = 10mA, I <sub>i</sub> = 0.5mA
Input Current	I <sub>i</sub>			1.8	mA	V <sub>i</sub> = 5V
Output Current	I <sub>O(off)</sub>			0.5	μA	V <sub>CC</sub> = 50V, V <sub>i</sub> =0V
Resistance	R <sub>1</sub>	3.29	4.7	6.11	KΩ	
Input Resistance	R <sub>2</sub>	7	10	13	KΩ	
Gain bandwidth product	f <sub>T</sub>	150	250		MHz	I <sub>C</sub> = 5mA, V <sub>CE</sub> = 10V, f=100MHz


**h<sub>FE</sub> Classification And Marking**

Print Mark C13

Classification

 h<sub>FE</sub> ≥ 30