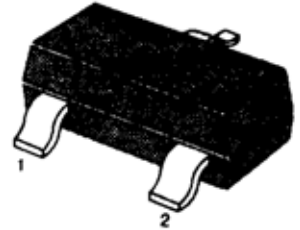


**■■ APPLICATION:**Interface Circuit and Driver Circuit Applications.

**■■ MAXIMUM RATINGS** ( $T_a=25^\circ\text{C}$ )

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	$V_{CC}$	50	V
Collector-emitter voltage	$V_{in}$	-10~+40	V
Emitter-base voltage	$I_o$	30	mA
Collector current	$I_c$ (max)	100	
Collector Power Dissipation	$P_C$	200	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55~150	$^\circ\text{C}$

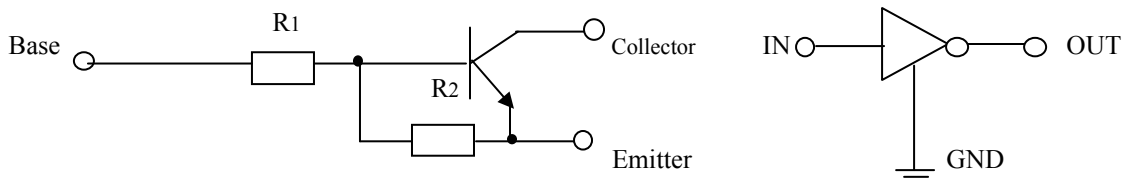
SOT-323



1.Base 2.Emitter 3.Collector

**■■ ELECTRICAL CHARACTERISTICS** ( $T_a=25^\circ\text{C}$ )

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	$h_{FE}$	56				$V_o=5V, I_o=5\text{mA}$
Input Voltage	$V_i$ (off)			0.5	V	$V_{CC}=5V, I_o=100\mu\text{A}$
	$V_i$ (on)	3				$V_o=0.2V, I_o=5\text{mA}$
Output Voltage	$V_o$ (on)		0.1	0.3	V	$I_o=10\text{mA}, I_i=0.5\text{mA}$
Input Current	$I_i$			0.36	mA	$V_i=5V$
Output Current	$I_o$ (off)			0.5	$\mu\text{A}$	$V_{CC}=50V, V_i=0V$
Input Resistance	$R_i$	15.4	22	28.6	$\text{K}\Omega$	
Resistance Rate	$R_2/R_1$	0.8	1	1.2		
Gain bandwidth product	$f_T$		250		MHz	$I_c=5\text{mA}, V_{CE}=10V, f=100\text{MHz}$


**■■  $h_{FE}$  Classification And Marking**

Print Mark	Y25
Classification	
$h_{FE}$	$\geq 56$