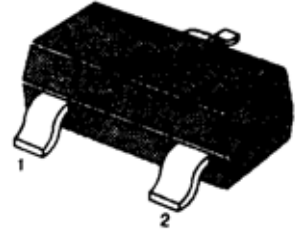


**■■ APPLICATION:** Interface Circuit and Driver Circuit Applications.

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

SOT-323

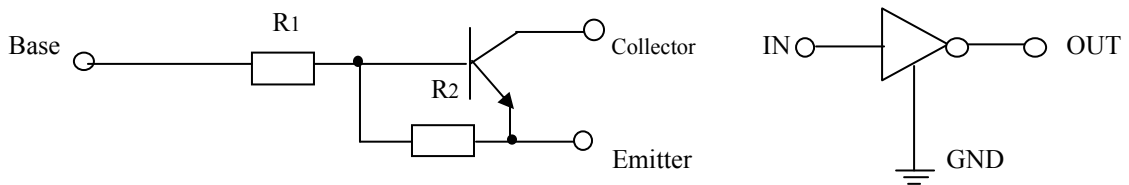
PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	$V_{CC}$	50	V
Collector-emitter voltage	$V_{in}$	-10~+40	V
Emitter-base voltage	$I_o$	100	mA
Collector current	$I_c(\text{max})$	100	
Collector Power Dissipation	$P_c$	200	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range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



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				$V_o=5\text{V}$ , $I_o=50\text{mA}$
Input Voltage	$V_{i(\text{off})}$			0.5	V	$V_{CC}=5\text{V}$ , $I_o=100\mu\text{A}$
	$V_{i(\text{on})}$	3				$V_o=0.3\text{V}$ , $I_o=10\text{mA}$
Output Voltage	$V_o(\text{on})$		0.1	0.3	V	$I_o=50\text{mA}$ , $I_i=2.5\text{mA}$
Input Current	$I_i$			0.88	mA	$V_i=5\text{V}$
Output Current	$I_o(\text{off})$			0.5	$\mu\text{A}$	$V_{CC}=50\text{V}$ , $V_i=0\text{V}$
Input Resistance	$R_i$	7	10	13	$\text{K}\Omega$	
Resistance Rate	$R_2/R_1$	0.8	1	1.2		
Gain bandwidth product	$f_T$	100	200		MHz	$I_c=50\text{mA}$ , $V_{CE}=10\text{V}$ , $f=100\text{MHz}$


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

Print Mark

F24

Classification

 $h_{FE}$ 
 $\geq 56$