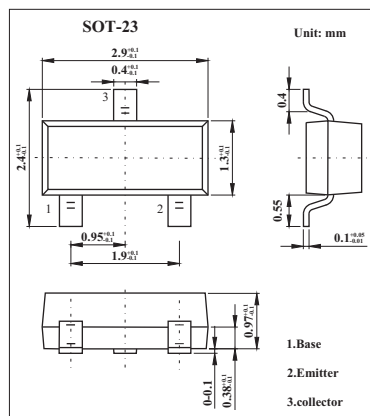


■ Features

- Collector Power Dissipation: $P_c=100\text{mW}$
- Collector Current: $I_c=150\text{mA}$



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	60	V
Collector-Emitter voltage	V_{CEO}	50	V
Emitter-base voltage	V_{EBO}	5	V
Collector Current	I_c	150	mA
Collector Power Dissipation	P_c	100	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test conditons	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_c=100\mu\text{A}, I_E=0$	60			
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_c=1\text{mA}, I_B=0$	50			
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu\text{A}, I_c=0$	5			
Collector Cut-off Current	I_{cBO}	$V_{CB}=60\text{V}, I_E=0$			0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5\text{V}, I_c=0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=6\text{V}, I_c=2\text{mA}$	70		700	
Transition Frequency	f_T	$V_{CE}=10\text{V}, I_c=1\text{mA}$	80			MHz
Collector output capacitance	C_{ob}	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$			3.5	pF
Noise Figure	NF	$V_{CE}=6\text{V}, I_c=0.1\text{mA}, f=1\text{KHz}, R_G=10\text{K}\Omega$			5.0	dB

■ hFE Classification

Marking	LO1	LYT	LG1	LL1
Rank	O	Y	G	L
h_{FE}	70~140	120~240	200~400	350~700