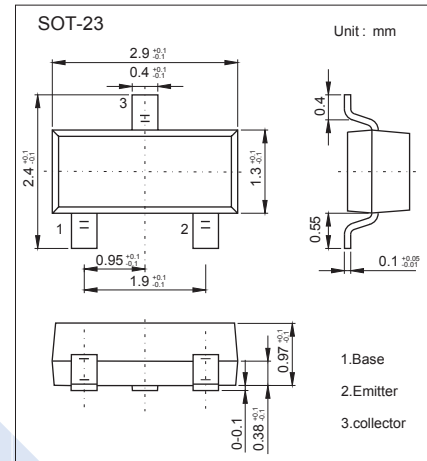
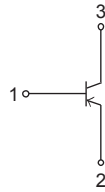


PNP Transistors

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■ Features

- General Purpose Amplifier



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	-40	V
Collector - Emitter Voltage	V_{CE0}	-40	
Emitter - Base Voltage	V_{EB0}	-5	
Collector Current - Continuous	I_C	-2	A
Peak Collector Current	I_{CM}	-3	
Peak Base Current	I_{BM}	-300	mA
Total Power Dissipation	P_{tot}	300	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature range	T_{stg}	-55 to +150	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_C = -100 \mu\text{A}$, $I_E = 0$	-40			V
Collector- emitter breakdown voltage	V_{CE0}	$I_C = -1.0 \text{ mA}$, $I_B = 0$	-40			
Emitter - base breakdown voltage	V_{EB0}	$I_E = -100 \mu\text{A}$, $I_C = 0$	-5			
Collector-base cut-off current	I_{CB0}	$V_{CB} = -30\text{V}$, $I_E = 0$			-100	nA
Emitter cut-off current	I_{EB0}	$V_{EB} = -4\text{V}$, $I_C = 0$			-100	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100 \text{ mA}$, $I_B = -1 \text{ mA}$			-100	mV
		$I_C = -500 \text{ mA}$, $I_B = -50 \text{ mA}$			-120	
		$I_C = -750 \text{ mA}$, $I_B = -15 \text{ mA}$			-255	
		$I_C = -1 \text{ A}$, $I_B = -50 \text{ mA}$			-255	
		$I_C = -2 \text{ A}$, $I_B = -200 \text{ mA}$			-400	
Base - emitter voltage	$V_{BE(sat)}$	$I_C = -2 \text{ A}$, $I_B = -200 \text{ mA}$			-1.1	V
Base Emitter Turn-on Voltage	$V_{BE(on)}$	$V_{CE} = -2 \text{ V}$, $I_C = -100 \text{ mA}$			-0.75	
DC current gain	h_{FE}	$I_C = -100 \text{ mA}$, $V_{CE} = -2 \text{ V}$	200			
		$I_C = -500 \text{ mA}$, $V_{CE} = -2 \text{ V}$	200			
		$I_C = -1 \text{ A}$, $V_{CE} = -2 \text{ V}$	150			
		$I_C = -2 \text{ A}$, $V_{CE} = -2 \text{ V}$	100			
Transition Frequency	f_T	$V_{CE} = -10 \text{ V}$, $I_C = -100 \text{ mA}$, $f = 100 \text{ MHz}$	100			MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10 \text{ V}$, $f = 1 \text{ MHz}$			35	pF

■ Marking

Marking	KIY
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■ Typical Characteristics

