

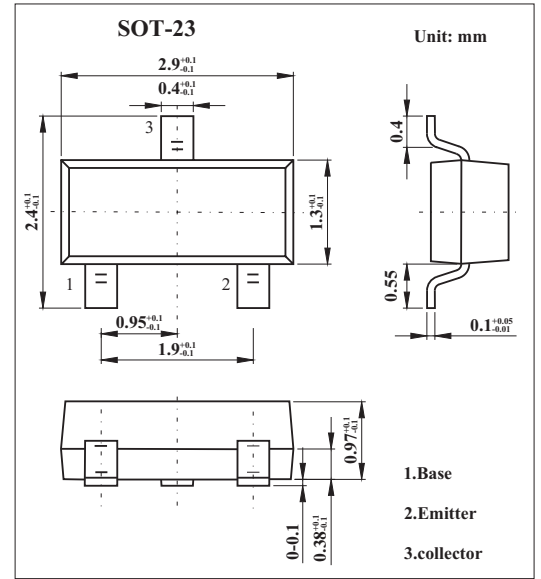
SOT-23 Plastic-Encapsulate Transistors

Features

- Collector Power Dissipation: $P_c=0.3W$
- Collector Current: $I_c=1.5A$
- NPN General Purpose Transistors

MECHANICAL DATA

- Case style: SOT-23 molded plastic
- Mounting position: any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	25	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I_c	1.5	A
Collector Power Dissipation	P_c	0.3	W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55 to 150	°C

PACKAGE INFORMATION

Device	Package	Shipping
SS8050	SOT-23	3000/Tape&Reel

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_c = 100 \mu A, I_E = 0$	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_c = 1mA, I_B = 0$	25			V
Emitter-base Breakdown voltage	$V_{(BR)EBO}$	$I_E = 100 \mu A, I_c = 0$	5			V
Collector-base cut-off current	I_{CBO}	$V_{CB} = 40 V, I_E = 0$			0.1	μA
Collector-emitter cut-off current	I_{CEO}	$V_{CE} = 20 V, I_B = 0$			0.1	μA
Emitter-base cut-off current	I_{EBO}	$V_{EB} = 5 V, I_c = 0$			0.1	μA
DC current gain	h_{FE}	$V_{CE} = 1 V, I_c = 100 mA$	200		350	
		$V_{CE} = 1 V, I_c = 800 mA$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = 800 mA, I_B = 80 mA$			0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_c = 800 mA, I_B = 80 mA$			1.2	V
Transition frequency	f_T	$V_{CE} = 10 V, I_c = 50 mA, f = 30 MHz$	100			MHz

Marking

Marking	Y1
---------	----