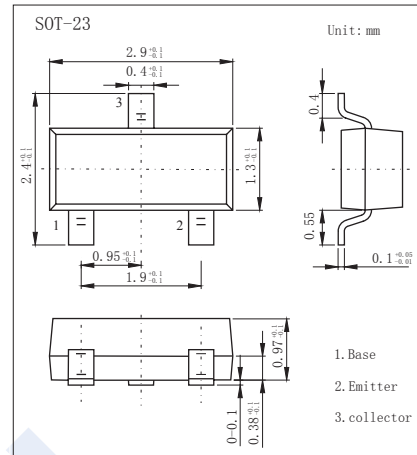


NPN Transistors

2SC2463

■ Features

- Collector Current Capability $I_c=100\text{mA}$
- Collector Emitter Voltage $V_{CE0}=50\text{V}$

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	55	V
Collector - Emitter Voltage	V_{CE0}	50	
Emitter - Base Voltage	V_{EB0}	5	
Collector Current - Continuous	I_c	100	mA
Collector Power Dissipation	P_c	150	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V_{CB0}	$I_c = 100 \mu\text{A}$, $I_E = 0$	55			V
Collector- emitter breakdown voltage	V_{CE0}	$I_c = 1\text{mA}$, $I_B = 0$	50			
Emitter - base breakdown voltage	V_{EB0}	$I_E = 100 \mu\text{A}$, $I_c = 0$	5			
Collector-base cut-off current	I_{CB0}	$V_{CB} = 30\text{V}$, $I_E = 0$			0.5	μA
Emitter cut-off current	I_{EB0}	$V_{EB} = 2\text{V}$, $I_c = 0$			0.5	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = 10\text{mA}$, $I_B = 1\text{mA}$			0.2	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_c = 10\text{mA}$, $I_B = 1\text{mA}$			1.2	
Base - emitter voltage	V_{BE}	$V_{CE} = 12\text{V}$, $I_c = 2\text{mA}$			0.75	
DC current gain	h_{FE}	$V_{CE} = 12\text{V}$, $I_c = 2\text{mA}$	250		1200	

■ Classification of h_{fe}

Type	2SC2463-D	2SC2463-E	2SC2463-F
Range	250-500	400-800	600-1200
Marking	DD	DE	DF