



SOT-23 Plastic-Encapsulate Transistors

MMBT5551LT1 TRANSISTOR (NPN)

FEATURES

Power dissipation

P_{CM} : 0.3 W ($T_{amb}=25^{\circ}C$)

Collector current

I_{CM} : 0.6 A

Collector-base voltage

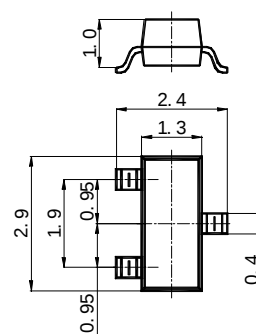
$V_{(BR)CBO}$: 180 V

Operating and storage junction temperature range

T_J, T_{stg} : $-55^{\circ}C$ to $+150^{\circ}C$

SOT-23

1. BASE
2. EMITTER
3. COLLECTOR



Unit: mm

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	180		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=0.1mA, I_B=0$	160		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	6		V
Collector cut-off current	I_{CBO}	$V_{CB}=180V, I_E=0$		0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=4V, I_C=0$		0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=5V, I_C=1mA$	80		
	$h_{FE(2)}$	$V_{CE}=5V, I_C=10mA$	80	250	
	$h_{FE(3)}$	$V_{CE}=5V, I_C=50mA$	30		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=50mA, I_B=5mA$		0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=50mA, I_B=5mA$		1	V
Transition frequency	f_T	$V_{CE}=10V, I_C=10mA, f=100MHz$	80		MHz

DEVICE MARKING

MMBT5551LT1=G1