

Single Bipolar Transistor multicomp^{PRO}

RoHS
Compliant



Features

- High voltage transistor
- Low collector-emitter saturation voltage

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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CBO}	-300	V
Collector-Emitter Voltage	V_{CEO}		
Emitter - Base Voltage	V_{EBO}	-5	
Collector Current - Continuous	I_C	-500	mA
Collector Power Dissipation	P_C	350	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	417	$^\circ\text{C/W}$
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	Max	Unit
Collector-Base Breakdown Voltage	V_{CBO}	$I_C = -100\ \mu\text{A}, I_E = 0$	-300		V
Collector-Emitter Breakdown Voltage	V_{CEO}	$I_C = -1\text{mA}, I_B = 0$			
Emitter-Base Breakdown Voltage	V_{EBO}	$I_E = -100\ \mu\text{A}, I_C = 0$	-5		
Collector-base cut-off current	I_{CBO}	$V_{CB} = 200\text{V}, I_E = 0$		-0.25	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$		-0.1	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -20\text{mA}, I_B = -2\text{mA}$		-0.2	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -20\text{mA}; I_B = -2\text{mA}$		-0.9	
DC current gain	$h_{FE(1)}$	$V_{CE} = -10\text{V}, I_C = -1\text{mA}$	60		
	$h_{FE(2)}$	$V_{CE} = -10\text{V}, I_C = -10\text{mA}$	100	300	
	$h_{FE(3)}$	$V_{CE} = -10\text{V}, I_C = -30\text{mA}$	60		
Transition frequency	f_T	$V_{CE} = -20\text{V}, I_C = 10\text{mA}, f = 30\text{MHz}$	50		MHz

Classification of $h_{FE(2)}$

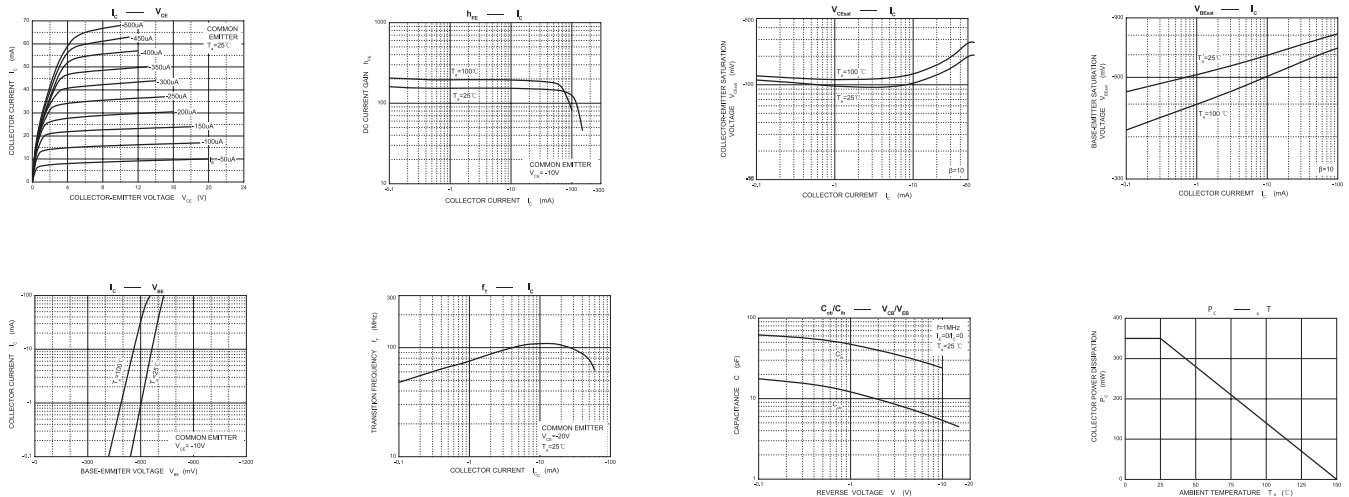
Type	MMBTA92
Range	100-300
Marking	2D

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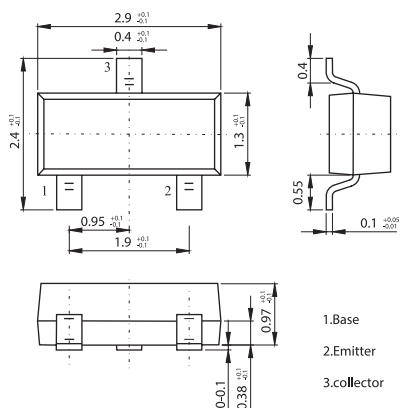
multicom^{PRO}

Single Bipolar Transistor multcomp^{PRO}

Typical Characteristics



Diagram



Dimensions : Millimetres

Part Number Table

Description	Part Number
Single Bipolar Transistor, PNP, -0.5A, -300V, SOT 23	MMBTA92

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