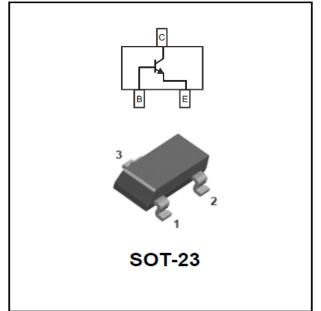


NPN Transistor



Features

- •Epoxy meets UL-94 V-0 flammability rating
- •Halogen free available upon request by adding suffix "HF"
- •Moisture Sensitivity Level 1
- •High Conductance

•Surface mount package ideally Suited for Automatic Insertion

Mechanical Data

Package: SOT-23

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Marking: 3D

■ Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Value
Collector-Base Voltage	V _{CBO}	V	400
Collector-Emitter Voltage	V _{CEO}	V	400
Emitter-Base Voltage	V_{EBO}	V	6
Collector Current	lc	mA	200
Collector Power Dissipation	Pc	mW	350
Operation Junction Temperature	Tj	°C	150
Storage Temperature	T _{stg}	°C	-55 to +150

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■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Тур	Max
Collector-base breakdown voltage	V _{CBO}	V	IC=100uA,IE=0	400		
Collector-emitter breakdown voltage	V _{CEO*}	V	IC =1mA,IB=0	400		
Emitter-base breakdown voltage	V _{EBO}	V	IE=10µA,IC=0	6		
Collector-base cut-off current	I _{CBO}	nA	VCB=400V, IE =0			100
Emitter-base cut-off current	I _{EBO}	nA	VEB=4 V, IC =0			100
DC current gain	h _{FE}		VCE=10V,IC=1mA	40		
	h _{FE}		VCE=10V,IC=10mA	50		200
	h _{FE}		VCE=10V,IC=50mA	45		
	h _{FE}		VCE=10V,IC=100mA	40		
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=10mA,IB=1mA			0.5
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=50mA,IB=5mA			0.75
Base-emitter saturation voltage	$V_{BE(sat)}$	V	IC=10mA,IB=1mA			0.75

Ordering Information (Example)

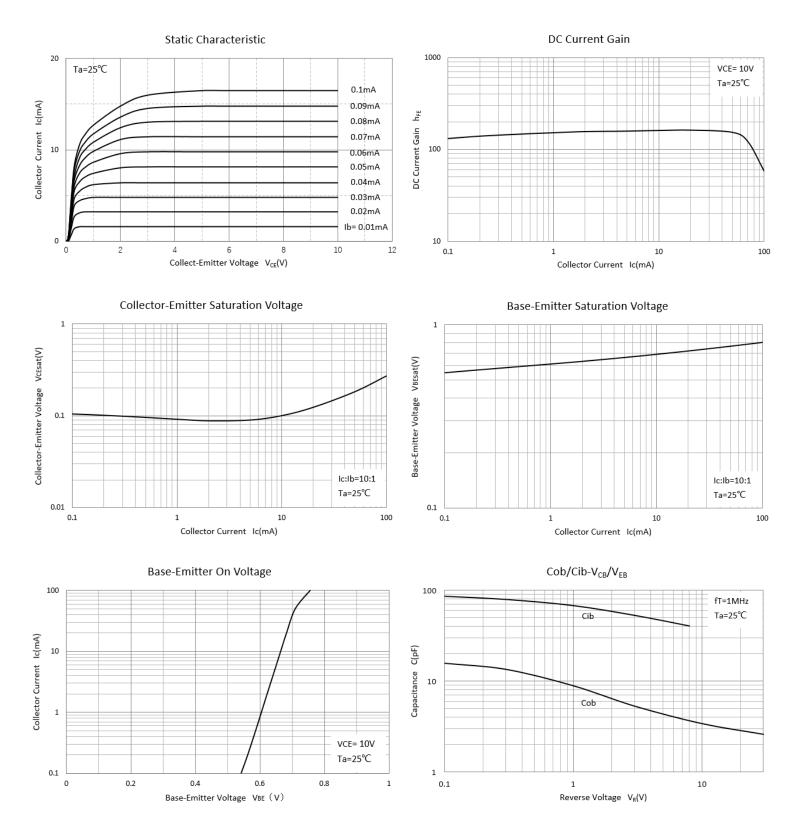
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMBTA44	F2	Approximate 0.008	3000	30000	120000	7" reel



MMBTA44



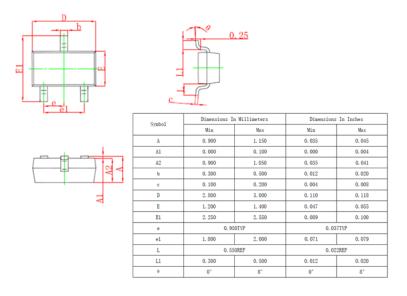
■Characteristics(Typical)



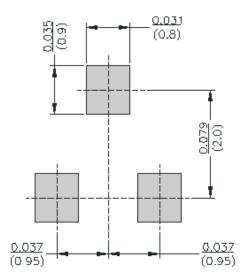
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■SOT-23 Package Outline Dimensions



■SOT-23 Soldering Footprint





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