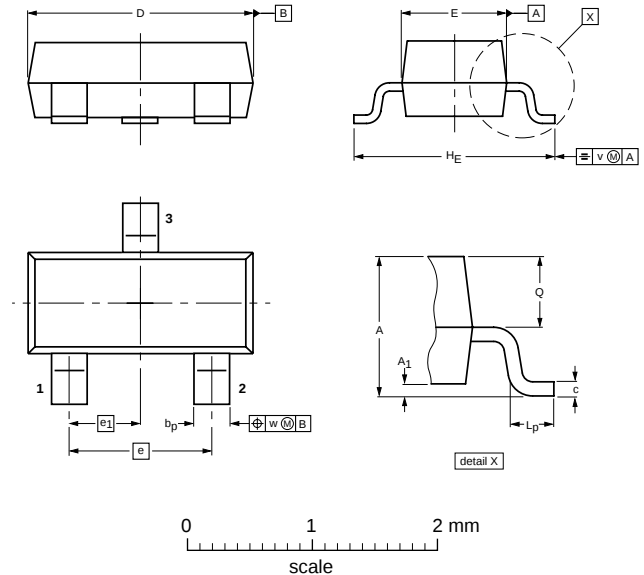


■ Features

- High Collector-Emitter Voltage
- Complement to MMBTA94



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max.	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w
mm	1.1 0.9	0.1	0.48 0.38	0.15 0.09	3.0 2.8	1.4 1.2	1.9	0.95	2.5 2.1	0.45 0.15	0.55 0.45	0.2	0.1

Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	400	V
Collector - Emitter Voltage	V _{CEO}	400	
Emitter - Base Voltage	V _{EB0}	6	
Collector Current - Continuous	I _C	200	mA
Collector Current - Pulsed	I _{CM}	300	
Collector Power Dissipation	P _C	350	mW
Thermal Resistance From Junction To Ambient	R _{θJA}	357	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

MMBTA44

Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	VCBO	Ic= 100 μ A, IE= 0	400			V
Collector- emitter breakdown voltage *1	VCEO	Ic= 1 mA, IB= 0	400			
Emitter - base breakdown voltage	VEBO	IE= 100 μ A, IC= 0	6			
Collector-base cut-off current	ICBO	VCB= 400 V , IE= 0			100	nA
Emitter cut-off current	IEBO	VEB= 4V , IC=0			100	
Collector-emitter saturation voltage *1	VCE(sat)1	Ic=10 mA, IB=1mA			0.2	V
	VCE(sat)2	Ic=50 mA, IB=5mA			0.3	
Base - emitter saturation voltage *1	VBE(sat)	Ic=10 mA, IB=1mA			0.75	
DC current gain *1	hFE(1)	VCE= 10V, Ic= 1mA	40			
	hFE(2)	VCE= 10V, Ic= 10mA	50		200	
	hFE(3)	VCE= 10V, Ic= 50mA	45			
	hFE(4)	VCE= 10V, Ic= 100mA	40			
Collector output capacitance	Cob	VCB= 20V, IE= 0,f=1MHz			7	pF
Transition frequency	fr	VCE=20, Ic= 10mA,f=30MHz	50			MHz

*1: Pulse test: pulse width $\leq$ 300 μ s, duty cycle $\leq$ 2.0%.

RATING AND CHARACTERISTIC CURVES (MMBTA44)

