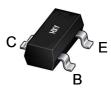


FEATURES

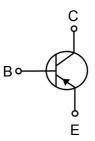
- Collector Current: I_C=-0.6A
- Power Dissipation of 300mw





Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MMBT4403	SOT-23	2T	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

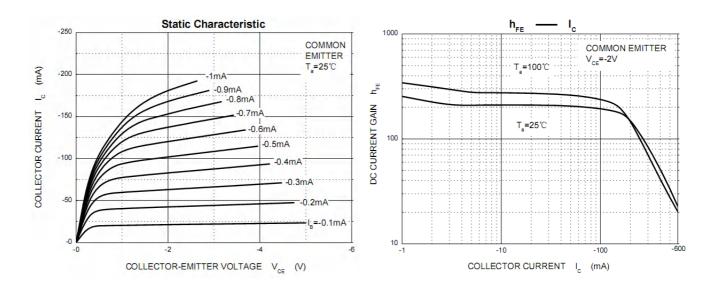
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	-40	V
Collector-Emitter Voltage	V _{CEO}	-40	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	Ι _c	-600	mA
Collector Power Dissipation	P _c	300	mW
Thermal Resistance From Junction To Ambient	R _{oja}	417	°C/W
Junction Temperature	Т	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

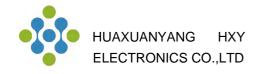


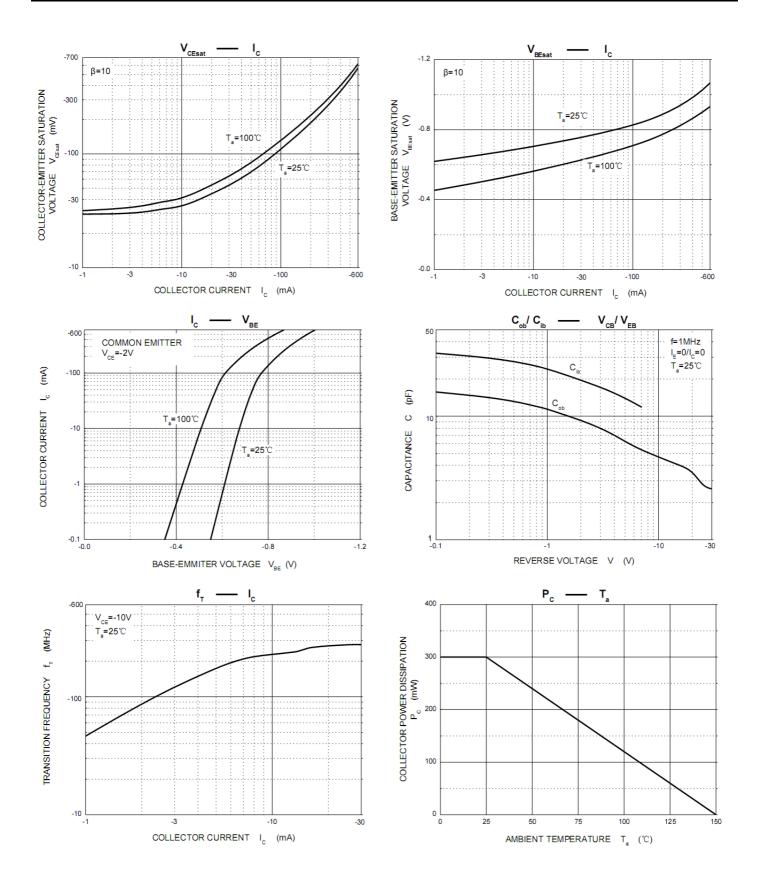
		umess other wise specified)				
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100 µ A,I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	-40			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100 μ A ,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-35V,I _E =0			-0.1	μA
Collector cut-off current	I _{CEX}	Vce=-35V, Vbe=0.4V			-0.1	μA
Emitter cut-off current	I _{EBO}	$V_{EB}=-4V,I_{C}=0$			-0.1	μA
	h _{FE1}	V _{CE} =-1V, I _C =-0.1mA	H0			
	h _{FE2}	V_{CE} =-1V, I _C =-1mA	Î O			
DC current gain	h _{FE3}	V_{CE} =-1V, I _C =-10mA	F€0			
	h _{FE4}	V_{CE} =-2V, I _C =-150mA	100		300	
	h _{FE5}	V_{CE} =-2V, I _C =-500mA	GD			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-150mA,I _B =-15mA			-0.4	V
Conector-entitier saturation voltage		I _C =-500mA,I _B =-50mA			-0.75	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-150mA,I _B =-15mA			-0.95	V
base-ennitier saturation voltage		I _C =-500mA,I _B =-50mA			-1.3	V
Transition frequency	f _T	V_{CE} =-10V, I _C =-20mA,f =100MHz	200			MHz
Delay time	t _d	Vcc=-30V, VBE(off)=-0.5V			15	} s
Rise time	tr	Ic=-150mA , Iв1=-15mA			20	}s
Storage time	ts	Vcc=-30V, Ic=-150mA			225	} s
Fall time	t _f	IB1=IB2=-15mA			Î O	} s

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Typical Characteristics

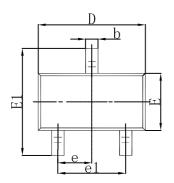


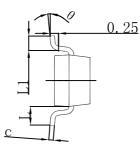


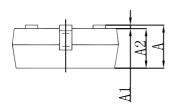




SOT-23 Package Outline Dimensions

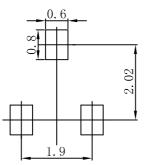






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 Suggested Pad Layout



Note: 1.Controlling dimension:in millimeters.

2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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