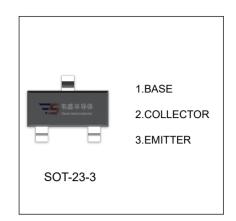


MMBTA56 TRANSISTOR (PNP)

FEATURES

• General Purpose Amplifier Applications



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-80	V
V _{EBO}	Emitter-Base Voltage	-4	V
Ic	Collector Current	-500	mA
Pc	Collector Power Dissipation	350	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	555	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Symbol	Test conditions	Min	Тур	Max	Unit				
V _{(BR)CBO}	I _C =-100μA, I _E =0	-80			V				
V _{(BR)CEO}	I _C =-1mA, I _B =0	-80			V				
V _{(BR)EBO}	I _E =-100μA, I _C =0	-4			V				
I _{CBO}	V _{CB} =-80V, I _E =0			-0.1	μA				
I _{CEO}	V _{CE} =-60V, I _B =0			-1	μA				
I _{EBO}	V _{EB} =-4V, I _C =0			-0.1	μA				
h _{FE(1)}	V _{CE} =-1V, I _C =-10mA	100		400					
h _{FE(2)}	V _{CE} =-1V, I _C =-100mA	100							
V _{CE(sat)}	I _C =-100mA, I _B =-10mA			-0.25	V				
V _{BE}	V _{CE} =-1V, I _C =-100mA			-1.2	V				
f _T	V _{CE} =-1V,I _C =-100mA, f=100MHz	50			MHz				
	Symbol V(BR)CBO V(BR)CEO V(BR)EBO ICBO ICEO IEBO hFE(1) hFE(2) VCE(sat) VBE	V _{(BR)CBO} I _C =-100μA, I _E =0 V _{(BR)CEO} I _C =-1mA, I _B =0 V _{(BR)EBO} I _E =-100μA, I _C =0 I _{CBO} V _{CB} =-80V, I _E =0 I _{CEO} V _{CE} =-60V, I _B =0 I _{EBO} V _{EB} =-4V, I _C =0 h _{FE(1)} V _{CE} =-1V, I _C =-10mA h _{FE(2)} V _{CE} =-1V, I _C =-10mA V _{CE} (sat) I _C =-100mA, I _B =-10mA V _{BE} V _{CE} =-1V, I _C =-100mA	V _{(BR)CBO} I _C =-100μA, I _E =0 -80 V _{(BR)CEO} I _C =-1mA, I _B =0 -80 V _{(BR)EBO} I _E =-100μA, I _C =0 -4 I _{CBO} V _{CB} =-80V, I _E =0 I _{CEO} V _{CE} =-60V, I _B =0 I _{EBO} V _{EB} =-4V, I _C =0 h _{FE(1)} V _{CE} =-1V, I _C =-10mA 100 V _{CE} (sat) I _C =-100mA, I _B =-10mA V _{BE} V _{CE} =-1V, I _C =-100mA	V _{(BR)CBO} I _C =-100μA, I _E =0 -80 V _{(BR)CEO} I _C =-1mA, I _B =0 -80 V _{(BR)EBO} I _E =-100μA, I _C =0 -4 I _{CBO} V _{CB} =-80V, I _E =0 I _{CEO} V _{CE} =-60V, I _B =0 I _{EBO} V _{EB} =-4V, I _C =0 h _{FE(1)} V _{CE} =-1V, I _C =-10mA 100 V _{CE} (sat) I _C =-100mA, I _B =-10mA V _{BE} V _{CE} =-1V, I _C =-100mA	V(BR)CBO I _C =-100μA, I _E =0 -80 V(BR)CEO I _C =-1mA, I _B =0 -80 V(BR)EBO I _E =-100μA, I _C =0 -4 I _{CBO} V _{CB} =-80V, I _E =0 -0.1 I _{CEO} V _{CE} =-60V, I _B =0 -1 I _{EBO} V _{EB} =-4V, I _C =0 -0.1 h _{FE(1)} V _{CE} =-1V, I _C =-10mA 100 h _{FE(2)} V _{CE} =-1V, I _C =-100mA 100 V _{CE} (sat) I _C =-100mA, I _B =-10mA -0.25 V _{BE} V _{CE} =-1V, I _C =-100mA -1.2				



