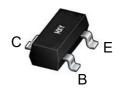


Features

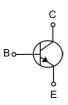
- For Switching and Amplifier Applications
- Complementary Type PNP Transistor MMBTA56



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MMBTA06	SOT-23	1GM	3000





Maxmim Ratings (Ta=25 unless otherwise noted)

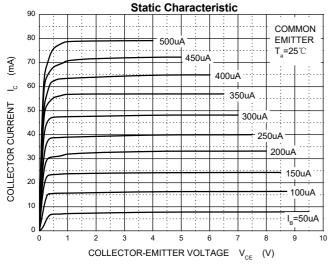
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	80	V
Collector-Emitter Voltage	V _{CEO}	80	V
Emitter-Base Voltage	V _{EBO}	4	V
Collector Current	I _C	500	mA
Collector Power Dissipation	P _c	300	mW
Thermal Resistance From Junction To Ambient	R _{OJA}	416	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55∼+150	°C

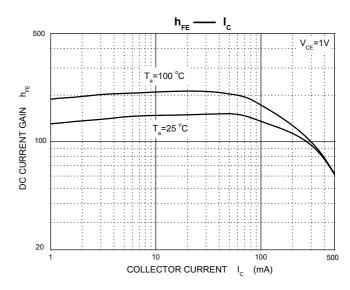


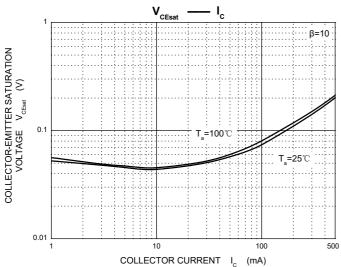
Electrcal Charcteristics (Ta=25 unless otherwise specified)

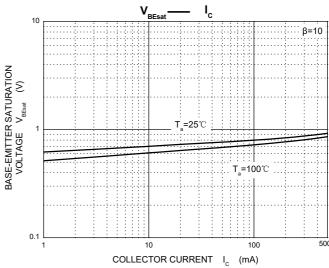
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =0.1mA, I _E =0	80			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	80			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =0.1mA, I _C =0	4			V
Collector cut-off current	I _{CBO}	V _{CB} =80V, I _E =0			0.1	μΑ
Collector cut-off current	I _{CEO}	V _{CE} =60V, I _B =0			1	μA
Emitter cut-off current	I _{EBO}	V_{EB} =3 V , I_{C} =0			0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =1V, I _C =10mA	100		400	
DC current gain	h _{FE(2)}	V _{CE} =1V, I _C =100mA	100			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100mA, I _B =10mA			0.25	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =100mA, I _B =10mA			1.2	V
Transition frequency	f⊤	V _{CE} =2V,I _C =10mA, f=100MHz	100			MHz

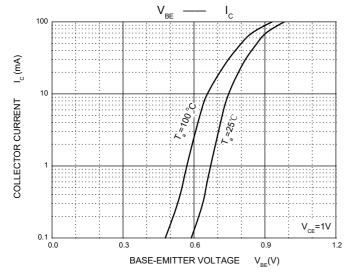
Typical Characteristics

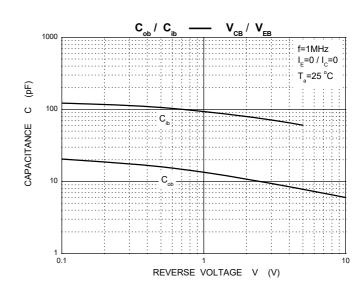


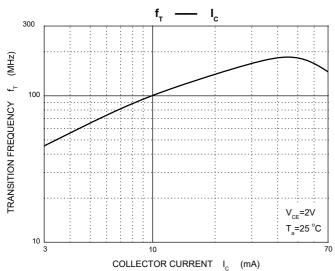


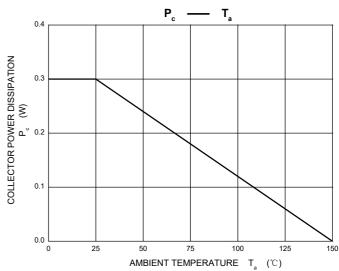




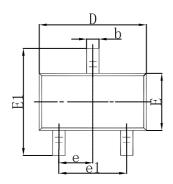


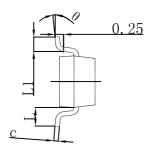


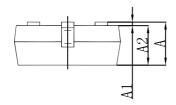




SOT-23 Package Outline Dimensions

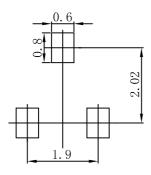






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max Min	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
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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