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TOO



MOV



GDT



PIFF

MMBTA94-MS

Product specification





TRANSISTOR (PNP)

FEATURES

High Breakdown Voltage

Reference News

PACKAGE OUTLINE		MARKING
1 2	1. BASE 2. EMITTER 3.COLLECTOR	4D
SOT-23		

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

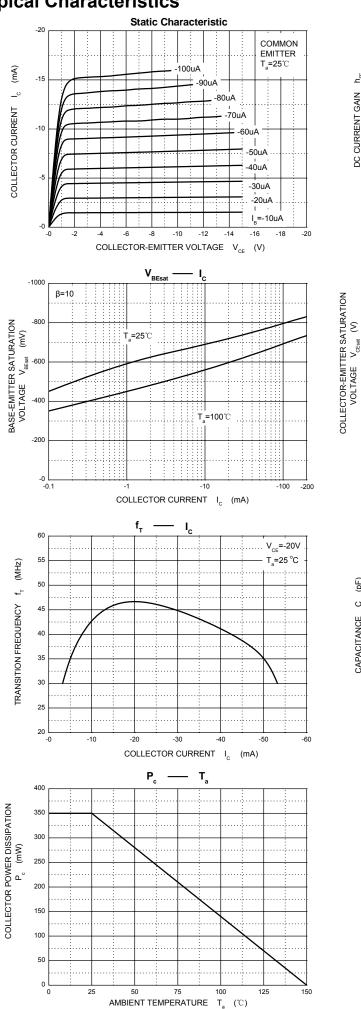
Symbol	Parameter	Value	Unit
V _{СВО}	Collector-Base Voltage	-400	V
V _{CEO}	Collector-Emitter Voltage	-400	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-200	mA
Ісм	Collector Current -Pulsed	-300	mA
Pc	Collector Power Dissipation	350	mW
Roja	Thermal Resistance From Junction To Ambient	357	°C/W
Tj	Junction Temperature	150	${\mathfrak C}$
T _{stg}	Storage Temperature	-55 ~ +150	℃

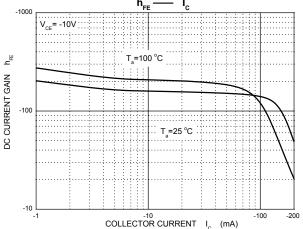
ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

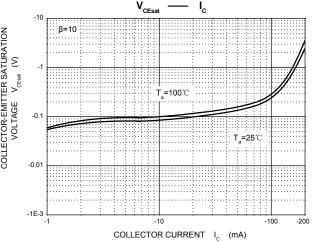
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I _C =-100μA, I _E =0	-400			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I _C =-1mA, I _B =0	-400			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA, I _C =0	-5			V
Collector cut-off current	Ісво	V _{CB} =-400V, I _E =0			-0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =-400V, I _B =0			-5	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V, I _C =0			-0.1	μA
	h _{FE(1)}	V _{CE} =-10V, I _C =-10mA	80		300	
DO accompand and in	h _{FE(2)}	V _{CE} =-10V, I _C =-1mA	70			
DC current gain	h _{FE(3)}	V _{CE} =-10V, I _C =-100mA	40			
	h _{FE(4)}	V _{CE} =-10V, I _C =-50mA	40			
Collector-emitter saturation voltage	V _{CE(sat)1}	I _C =-10mA, I _B =-1mA			-0.2	V
	V _{CE(sat)2}	lc=-50mA, I _B =-5mA			-0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-10mA, I _B =-1mA			-0.75	V
Transition fraguency	f _	V _{CE} =-20V,I _C =-10mA,	50			N/LI-
Transition frequency	f⊤	f=30MHz	50			MHz

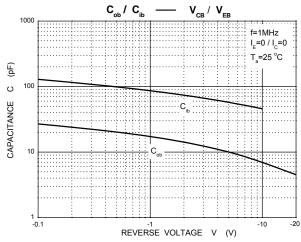


Typical Characteristics



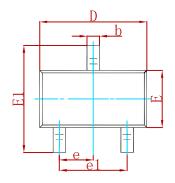


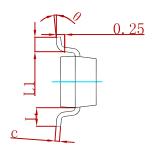


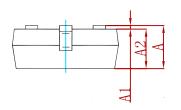




PACKAGE MECHANICAL DATA

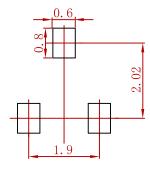






Cumhal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.03	7 TYP	
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.02	2 REF	
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
MMBTA94-MS	SOT-23	3000



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