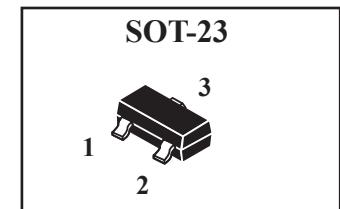
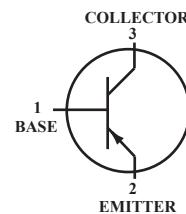


High-Voltage PNP Transistor Surface Mount

Pb Lead(Pb)-Free



Maximum Ratings

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V _{CEO}	-400	Vdc
Collector-Base Voltage	V _{CBO}	-400	Vdc
Emitter-Base Voltage	V _{EBO}	-6.0	Vdc
Collector Current-Continuous	I _C	-150	mAdc

Thermal Characteristics

Characteristics	Symbol	Max	Unit
Maximum Power Dissipation Total Power Dissipation (Ta=25°C)	P _D	350	mW
Junction Temperature	T _J	+150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

Device Marking

MMBT A94=4Z

Electrical Characteristics (T_A=25°C Unless Otherwise noted)

Characteristics	Symbol	Min	Max	Unit
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Off Characteristics

Collector-Emitter Breakdown Voltage (I _C =-1.0mA, I _B =0)	V(BR)CEO	-400	-	Vdc
Collector-Base Breakdown Voltage (I _C =-100μA, I _E =0)	V(BR)CBO	-400	-	Vdc
Emitter-Base Breakdown Voltage (I _E =-10 uA, I _C =0)	V(BR)EBO	-6.0	-	Vdc
Collect Cutoff Current (V _{CB} = -400Vdc, I _E =0)	I _{CBO}	-	-100	nAdc
Emitte Cutoff Current (V _{EB} =-6V, I _C =0)	I _{EBO}	-	-100	nAdc
Emitte Cutoff Current (V _{CE} =-400V, V _{EB} =0V)	I _{CES}	-	-500	nAdc

Electrical Characteristics ($T_A=25^\circ C$ unless otherwise noted) (Continued)

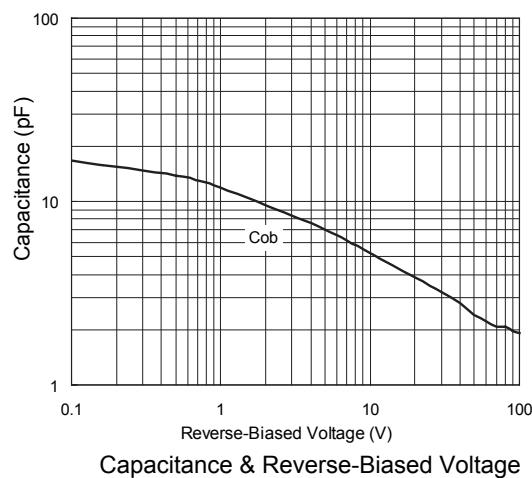
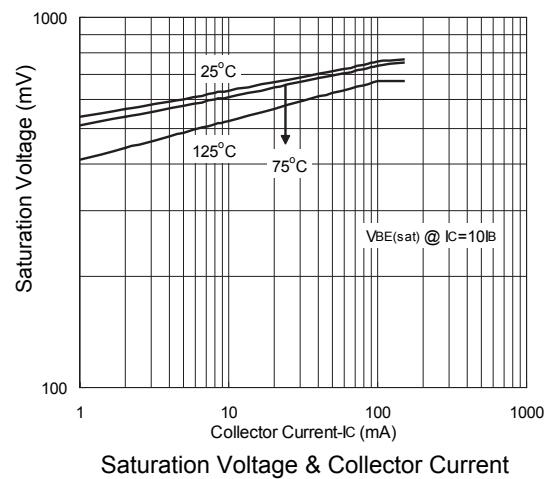
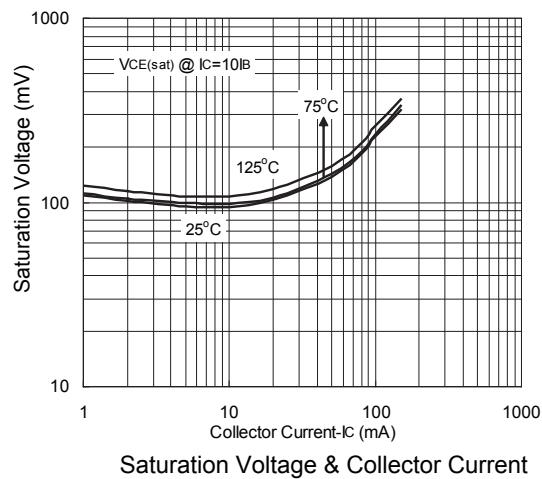
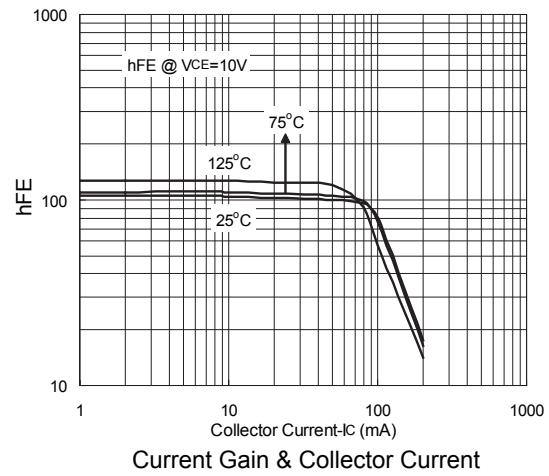
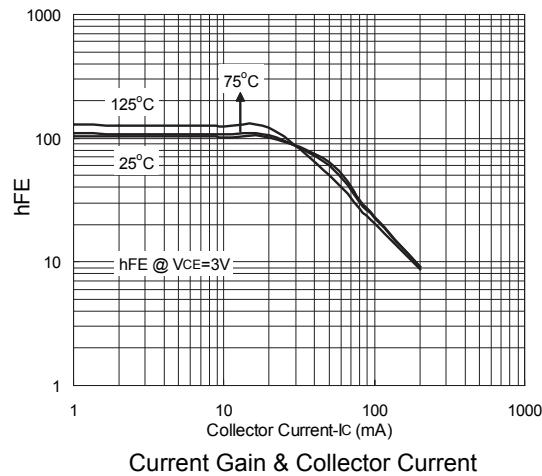
Characteristics	Symbol	Min		Max	Unit
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On Characteristics

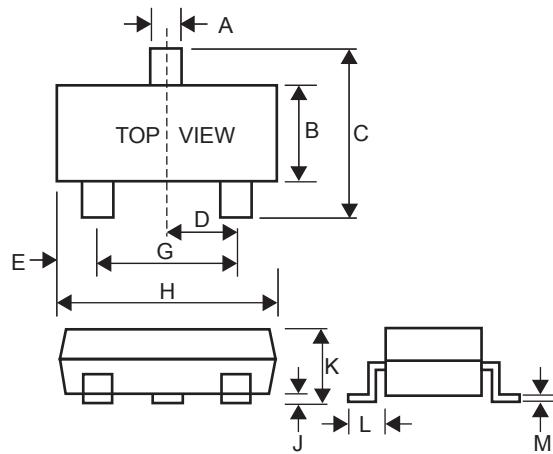
DC Current Gain* ($V_{CE}=-10Vdc$, $I_C=-1.0\text{ mA}$) ($V_{CE}=-10Vdc$, $I_C=-10\text{ mA}$) ($V_{CE}=-10Vdc$, $I_C=-50\text{ mA}$) ($V_{CE}=-10Vdc$, $I_C=-100\text{ mA}$)	$H_{FE}(1)$ $H_{FE}(2)$ $H_{FE}(3)$ $H_{FE}(4)$	50 75 60 20	-	- 200 -	-
Collector-Emitter Saturation Voltage* ($I_C=-1.0\text{ mA}$, $I_B=-0.1\text{ mA}$) ($I_C=-10\text{ mA}$, $I_B=-1\text{ mA}$) ($I_C=-50\text{ mA}$, $I_B=-5\text{ mA}$)	$V_{CE(sat)}$	-	-	0.20 0.30 0.60	Vdc
Base-Emitter Saturation Voltage* ($I_C=-10\text{ mA}$, $I_B=-1.0\text{ mA}$)	$V_{BE(sat)}$	-	-	0.90	Vdc
Output Capacitance ($V_{CE}=-10\text{ Vdc}$, $f=1.0\text{ MHz}$)	C_{ob}	-	4	6	pF

*Pulse Test : Pulse Width $\leq 380\mu\text{s}$, Duty Cycle $\leq 2.0\%$.

Characteristics Curve



SOT-23 Package Outline Dimension



SOT-23		
Dim	Min	Max
A	0.35	0.51
B	1.19	1.40
C	2.10	3.00
D	0.85	1.05
E	0.46	1.00
G	1.70	2.10
H	2.70	3.10
J	0.01	0.13
K	0.89	1.10
L	0.30	0.61
M	0.076	0.25