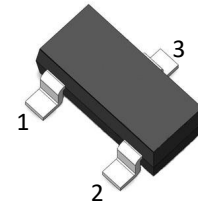
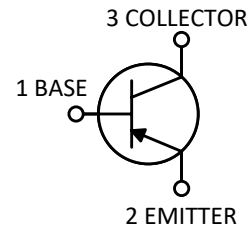


»Features

$V_{CE} = -400V$
 $I_C = -0.2A$
 $f_T = 50MHz @ V_{CE} = -2V, I_C = -10mA, f = 30MHz$

»Pin Configurations



»General Description

- Epitaxial planar die constructio
- SOT-23 Plastic Package.

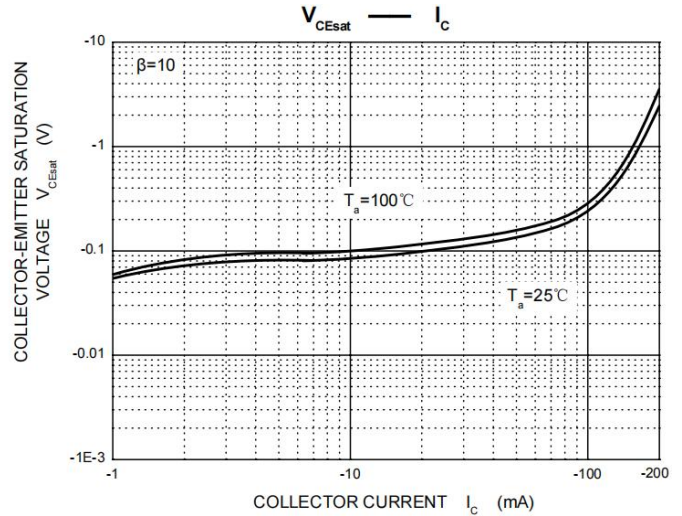
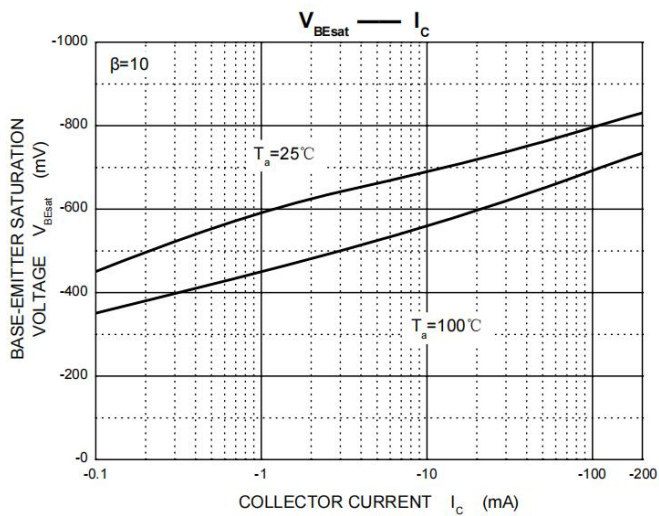
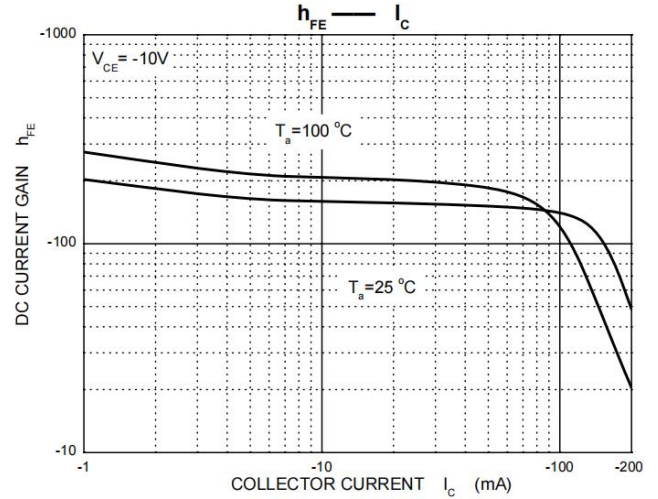
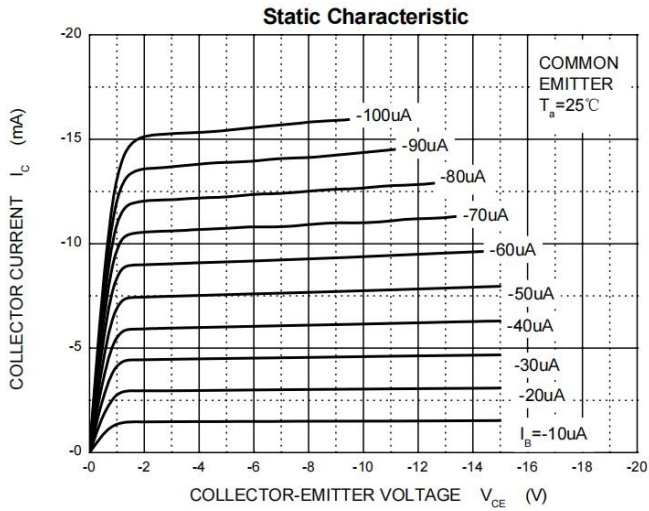
»Absolute Maximum Ratings @ $T_A = 25^\circ C$ unless otherwise noted

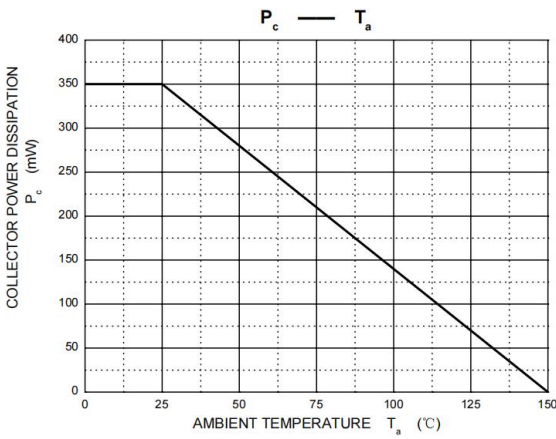
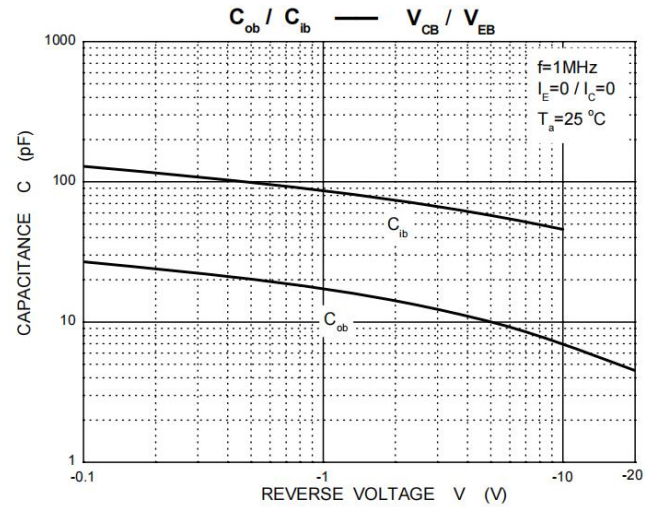
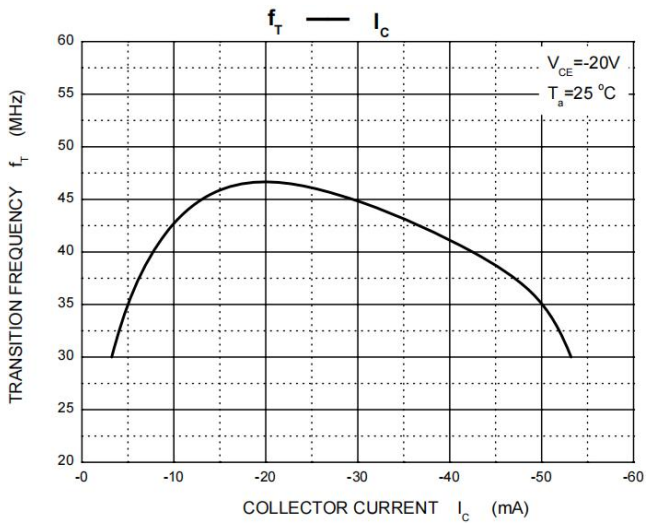
Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-400	V
V_{CEO}	Collector-Emitter Voltage	-400	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-200	mA
I_{CM}	Collector Current -Pulsed	-300	mA
P_C	Collector Power Dissipation	300	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	350	$^\circ C/W$
T_J, T_{stg}	Operation Junction And Storage Temperature Range	-55~+150	$^\circ C$

»Electrical Characteristics @ $T_A = 25^\circ C$ unless otherwise noted

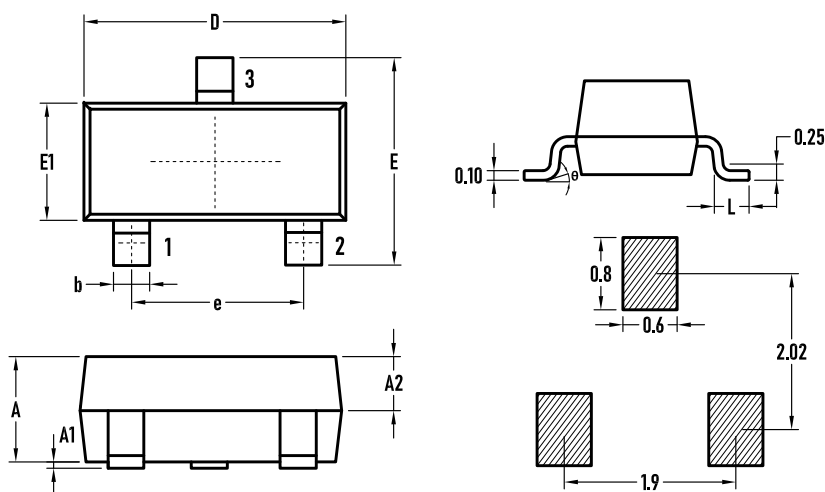
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CBO}$	Collector-base breakdown voltage	$I_C = -100\mu A, I_E = 0$	-400			V
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C = -1mA, I_B = 0$	-400			V
$V_{(BR)EBO}$	Emitter-base breakdown voltage	$I_E = -100\mu A, I_C = 0$	-5			V
I_{CBO}	Collector cut-off current	$V_{CB} = -400V, I_E = 0$			-100	nA
I_{CEO}	Collector cut-off current	$V_{CB} = -400V, I_E = 0$			-5	μA
I_{EBO}	Emitter cut-off current	$V_{EB} = -4V, I_C = 0$			-100	nA
$h_{FE(1)}$	DC current gain(1)	$V_{CE} = -10V, I_C = -10mA$	80		300	
$h_{FE(2)}$	DC current gain(2)	$V_{CE} = -10V, I_C = -1mA$	70			
$h_{FE(3)}$	DC current gain(3)	$V_{CE} = -10V, I_C = -100mA$	40			
$h_{FE(4)}$	DC current gain(4)	$V_{CE} = -10V, I_C = -50mA$	40			
$V_{CE(sat)1}$	Collector-emitter saturation voltage	$I_C = -10mA, I_B = -1mA$			-0.2	V
$V_{BE(sat)1}$	Base-emitter saturation voltage				-0.75	V
$V_{CE(sat)2}$	Collector-emitter saturation voltage	$I_C = -50mA, I_B = -5mA$			-0.3	V
$V_{BE(sat)2}$	Base-emitter saturation voltage				-0.9	V
f_T	Transition frequency	$V_{CE} = -2V, I_C = -10mA, f = 30MHz$	50			MHz

»Typical Performance Characteristics ((T_J = 25 °C, unless otherwise noted))



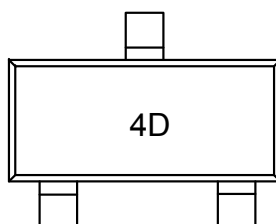


»Package Information-SOT23



SYMBOL	MILLIMETER		
	MIN.	Typ	MAX
A	0.90	1.00	1.10
A1	0.02	0.06	0.10
A2	–	0.60	–
D	2.85	2.90	2.95
b	0.37	0.40	0.43
E	2.35	2.40	2.45
E1	1.25	1.30	1.35
e	1.85	1.90	1.95
L	0.35	0.40	0.48
θ	0	–	6°

»Marking



»Ordering information

Order code	Package	Base qty	Delivery mode
MMBTA94	SOT-23	3K	Tape and reel