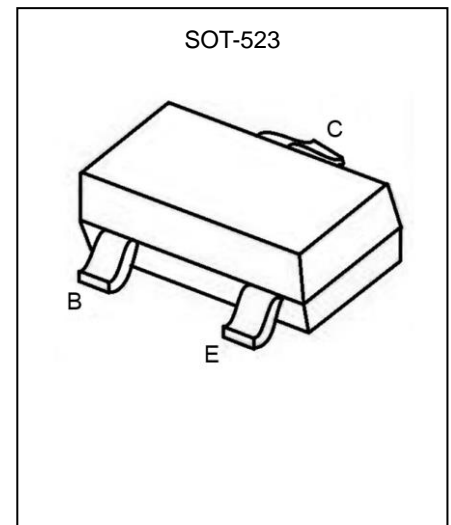


**MMBT3904T Transistor(NPN)**
**Feature**

- Switching Transistor
- Collector-emitter voltage  $V_{CE}=40V$
- Collector current  $I_c=0.2A$

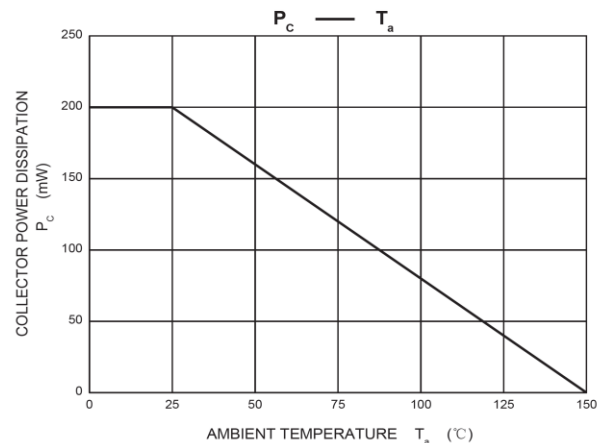
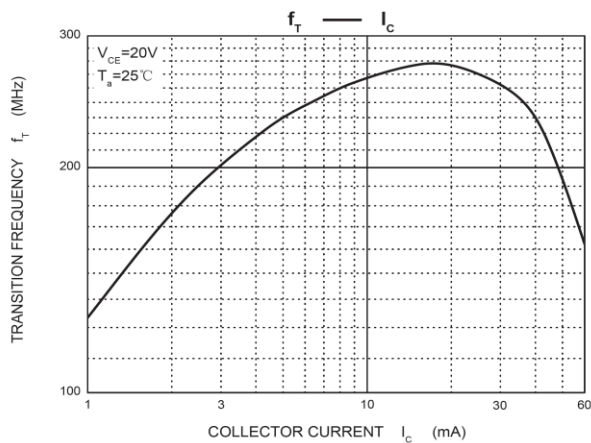
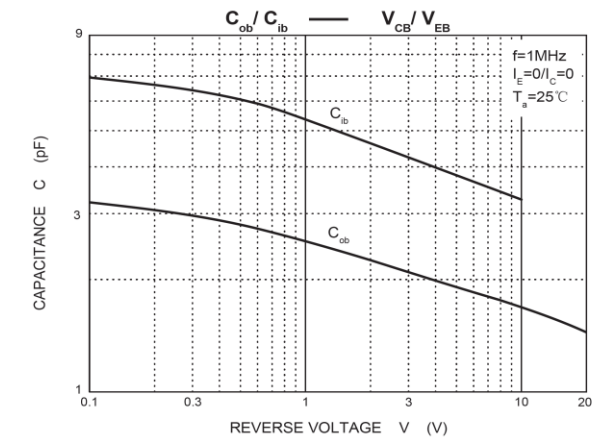
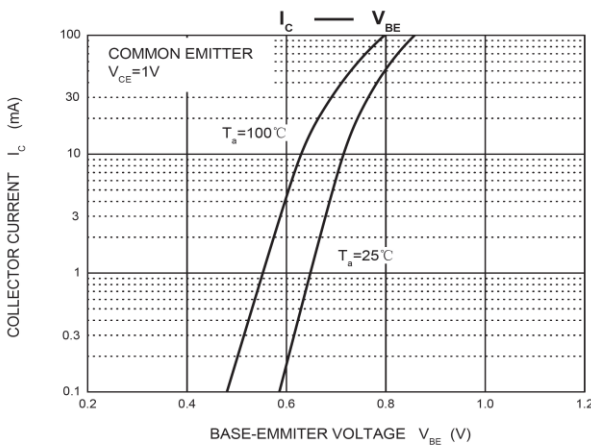
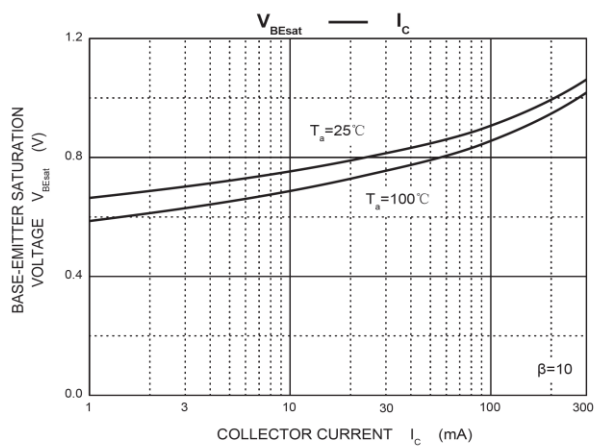
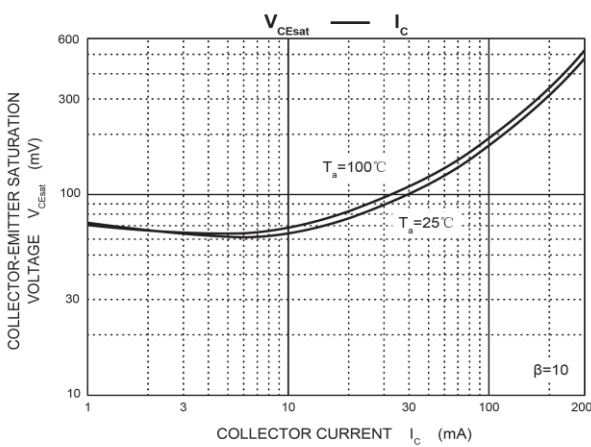
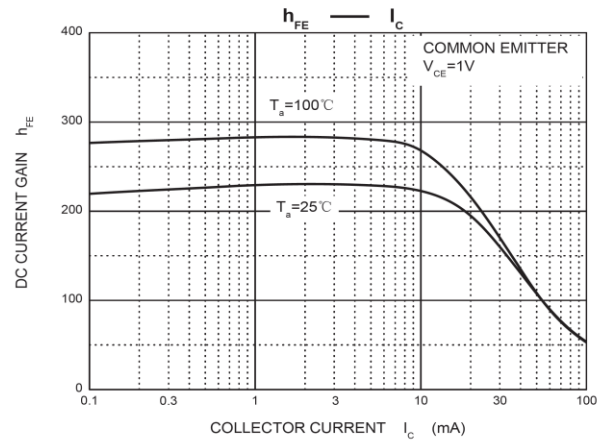
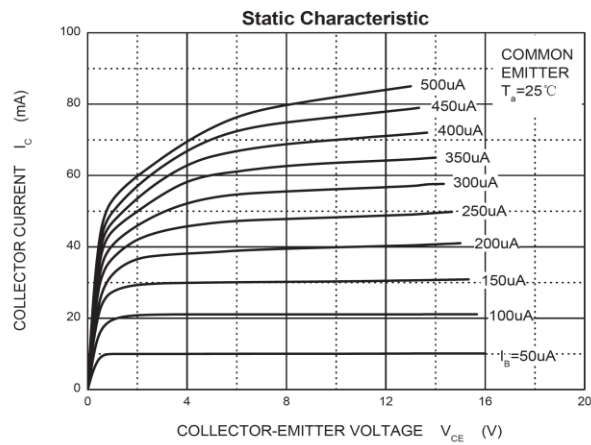

**MAXIMUM RATINGS ( $T_a=25^{\circ}C$  unless otherwise noted)**

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{CBO}$	60	V
Collector-Emitter Voltage	$V_{CEO}$	40	V
Emitter-Base Voltage	$V_{EBO}$	6	V
Collector Current -Continuous	$I_c$	0.2	A
Power Dissipation	$P_d$	0.15	W
Junction Temperature	$T_J$	150	$^{\circ}C$
Storage Temperature	$T_{STG}$	-55~ +150	$^{\circ}C$

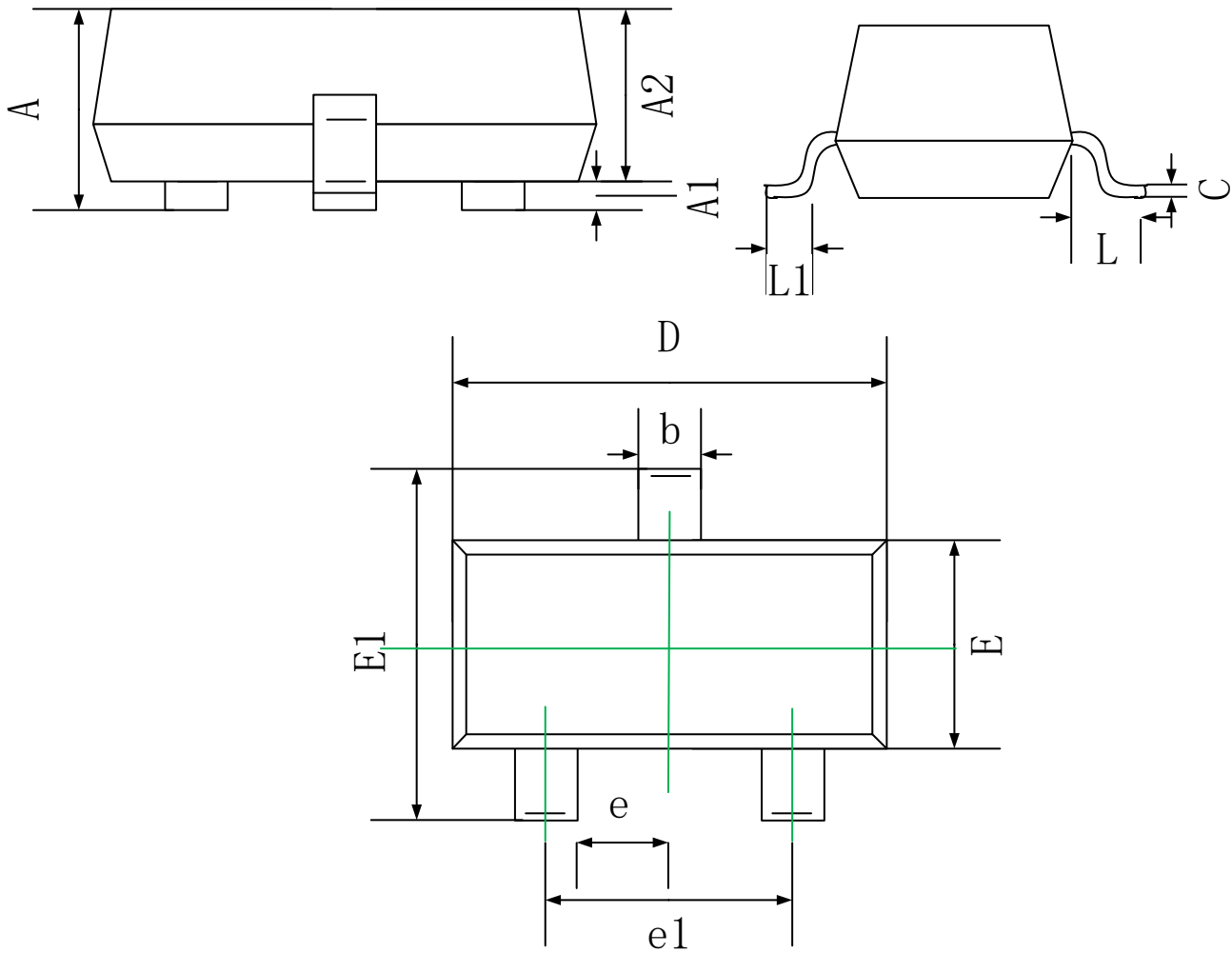
**ELECTRICAL CHARACTERISTICS( $T_a=25^{\circ}C$  unless otherwise noted)**

Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_c=10\mu A, I_E=0$	60		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_c=1mA, I_B=0$	40		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_c=0$	6		V
Collector cut-off current	$I_{CBO}$	$V_{CB}=60V, I_E=0$		100	nA
Collector cut-off current	$I_{CEX}$	$V_{CE}=30V, V_{EB(off)}=3V$		50	nA
Base cut-off current	$I_{BEX}$			50	nA
Emitter cut-off current	$I_{EBO}$	$V_{EB}=5V, I_c=0$		100	nA
DC current gain	$h_{FE1}$	$V_{CE}=1V, I_c=0.1mA$	40		
	$h_{FE2}$	$V_{CE}=1V, I_c=1mA$	70		
	$h_{FE3}$	$V_{CE}=1V, I_c=10mA$	100	300	
	$h_{FE4}$	$V_{CE}=1V, I_c=50mA$	60		
	$h_{FE5}$	$V_{CE}=1V, I_c=100mA$	30		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c=50mA, I_B=0mA$		0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_c=50mA, I_B=0mA$		0.95	V
Transition frequency	$f_r$	$V_{CE}=20V, I_c=10mA, f=100MHz$	300		MHZ
Delay Time	$t_d$	$V_{CC}=3V, I_C=10mA, V_{BE(off)}=-0.5V, I_{B1}=1mA$		35	ns
Rise Time	$t_r$			35	ns
Storage Time	$t_s$	$V_{CC}=3V, I_C=10mA,$		200	ns
Fall Time	$t_f$	$I_{B1}=I_{B2}=1mA$		50	ns

**Typical Characteristics**



## SOT-523 Package Information



Symbol	Dimensions In Millimeters	
	Min	Max
A	0.700	0.900
A1	0.000	0.100
A2	0.700	0.800
b	0.150	0.250
c	0.100	0.200
D	1.500	1.700
E	0.700	0.900
E1	1.450	1.750
e	0.500 TYP	
e1	1.800	2.000
L	0.400 REF	
L1	0.260	0.460
$\theta$	0°	8°

单击下面可查看定价，库存，交付和生命周期等信息

[>>GP\(格瑞宝\)](#)