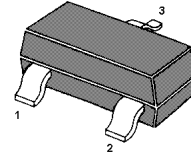


MMBTSA1365 PNP Silicon Epitaxial Planar Transistor

for high current drive application

The transistor is subdivided into three groups E, F and G according to its DC current gain.



1.Base 2.Emitter 3.Collector
SOT-23 Plastic Package

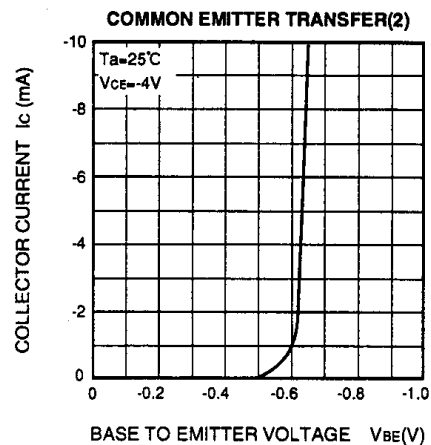
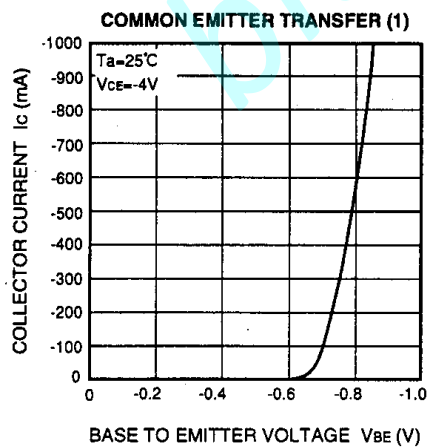
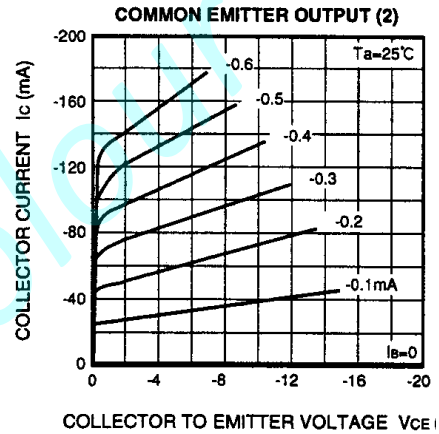
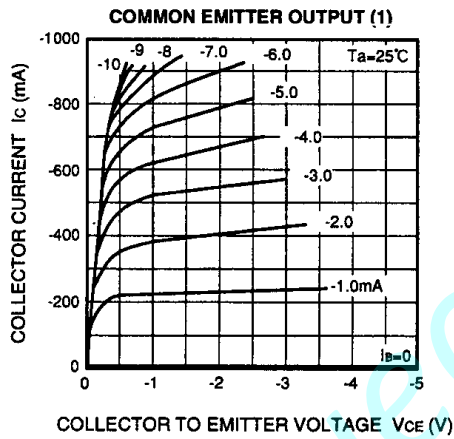
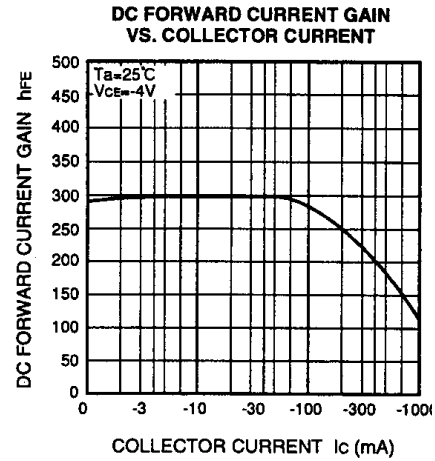
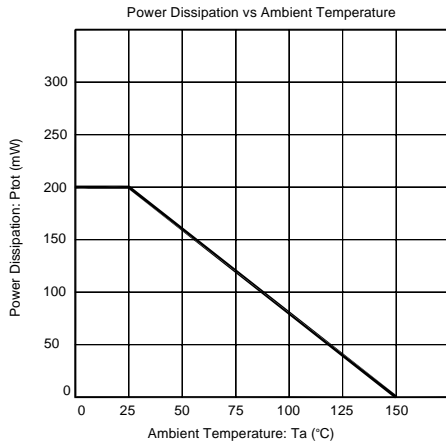
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	-V _{CB0}	25	V
Collector Emitter Voltage	-V _{CEO}	20	V
Emitter Base Voltage	-V _{EBO}	4	V
Collector Current	-I _C	700	mA
Peak Collector Current	-I _{CM}	1	A
Power Dissipation	P _{tot}	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _s	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at -V _{CE} = 4 V, -I _C = 100 mA	E	h _{FE}	150	-	300	-
	F	h _{FE}	250	-	500	-
	G	h _{FE}	400	-	800	-
Collector Cutoff Current at -V _{CB} = 25 V	-I _{CB0}	-	-	1	μA	
Emitter Cutoff Current at -V _{EB} = 2 V	-I _{EBO}	-	-	1	μA	
Collector Base Breakdown Voltage at -I _C = 10 μA	-V _{(BR)CB0}	25	-	-	V	
Collector Emitter Breakdown Voltage at -I _C = 100 μA	-V _{(BR)CEO}	20	-	-	V	
Emitter Base Breakdown Voltage at -I _E = 10 μA	-V _{(BR)EBO}	4	-	-	V	
Collector Saturation Voltage at -I _C = 500 mA, -I _B = 25 mA	-V _{CE(sat)}	-	-	0.5	V	
Transition Frequency at -V _{CE} = 6 V, I _E = 10 mA	f _T	-	180	-	MHz	

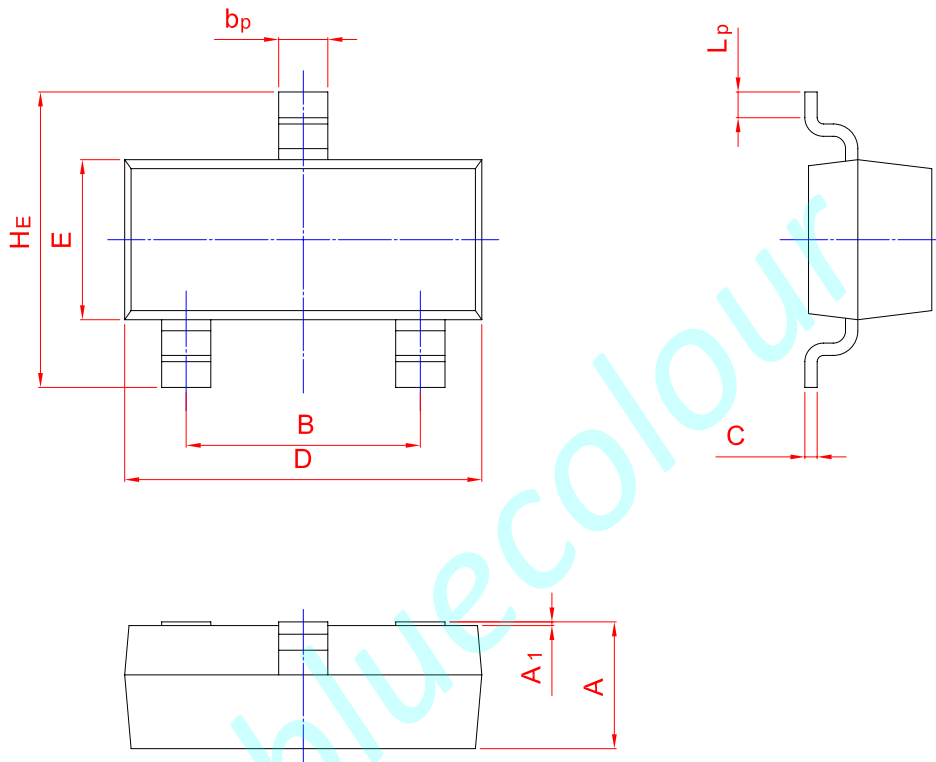
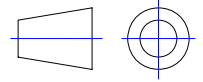
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20