

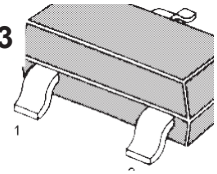
SOT-23 Plastic-Encapsulate Transistors

MMBTSC3265 NPN Silicon Epitaxial Planar Transistor

for low frequency power amplifier applications
and power switching application.

- High DC current gain.
- Low saturation voltage.
- Complementary to MMBTSA1298.

SOT-23



1. BASE
2. EMITTER
3. COLLECTOR

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	35	V
Collector Emitter Voltage	V_{CEO}	30	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	800	mA
Base Current	I_B	160	mA
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +150	$^\circ\text{C}$

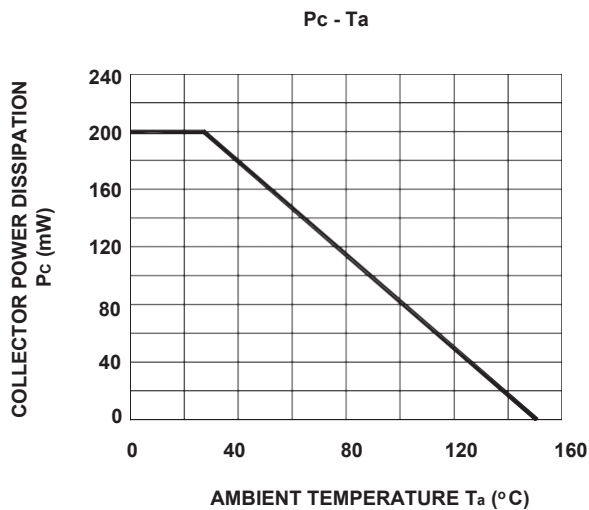
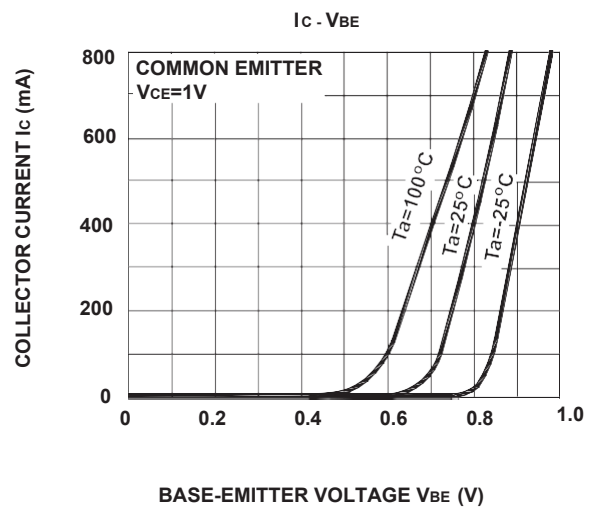
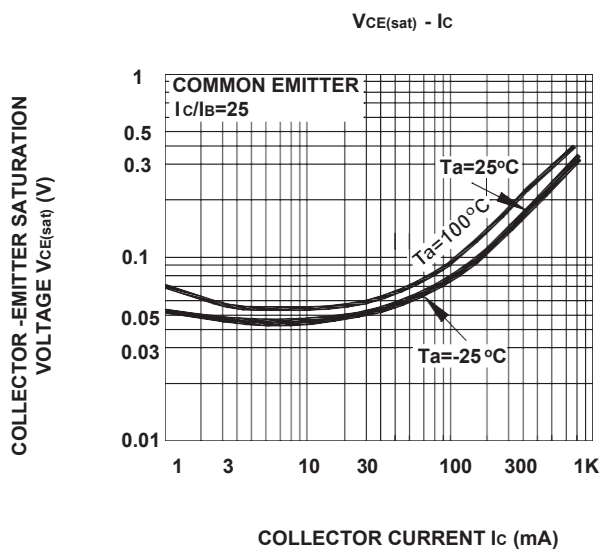
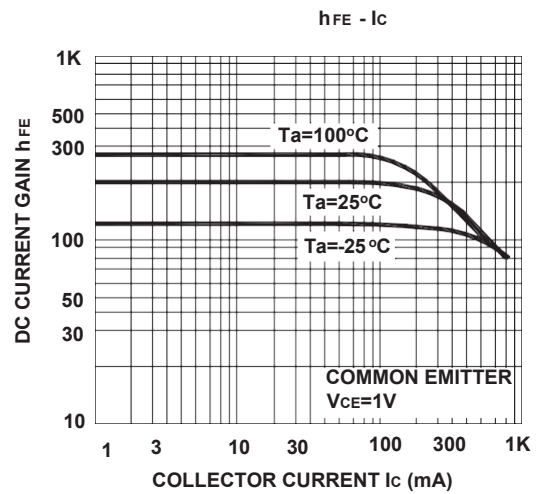
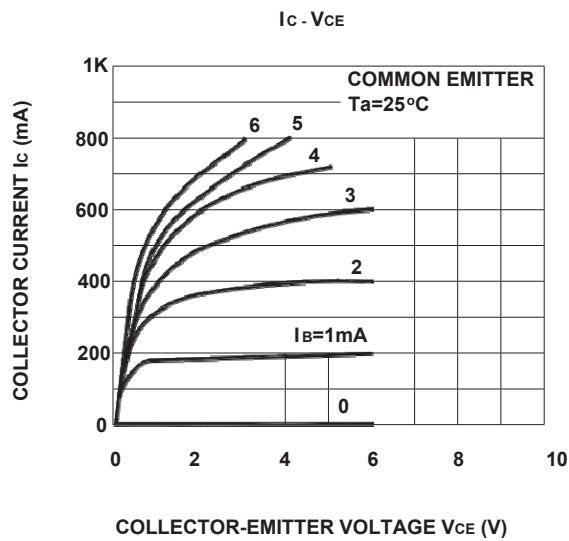
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain	at $V_{CE}=1V$, $I_C=100mA$	h_{FE}	100	-	320	-
	at $V_{CE}=1V$, $I_C=800mA$	h_{FE}	40	-	-	-
Collector Cutoff Current	at $V_{CB}=30V$	I_{CBO}	-	-	100	nA
Emitter Cutoff Current	at $V_{EB}=5V$	I_{EBO}	-	-	100	nA
Collector Emitter Breakdown Voltage	at $I_C=10mA$	$V_{(BR)CEO}$	30	-	-	V
Emitter Base Breakdown Voltage	at $I_E=1mA$	$V_{(BR)EBO}$	5	-	-	V
Collector Emitter Saturation Voltage	at $I_C=500mA$, $I_B=20mA$	$V_{CE(sat)}$	-	-	0.5	V
Transition Frequency	at $V_{CE}=5V$, $I_C=10mA$, $f=100MHz$	f_T	-	120	-	MHz
Base Emitter Voltage	at $I_C=10mA$, $V_{CE}=1V$	V_{BE}	0.5	-	0.8	V
Collector Output Capacitance	at $V_{CB}=10V$, $f=1MHz$	C_{OB}	-	13	-	pF

CLASSIFICATION OF $h_{FE(1)}$

RANK	O	Y
RANGE	100 - 200	160 - 320
MARKING	EO	EY

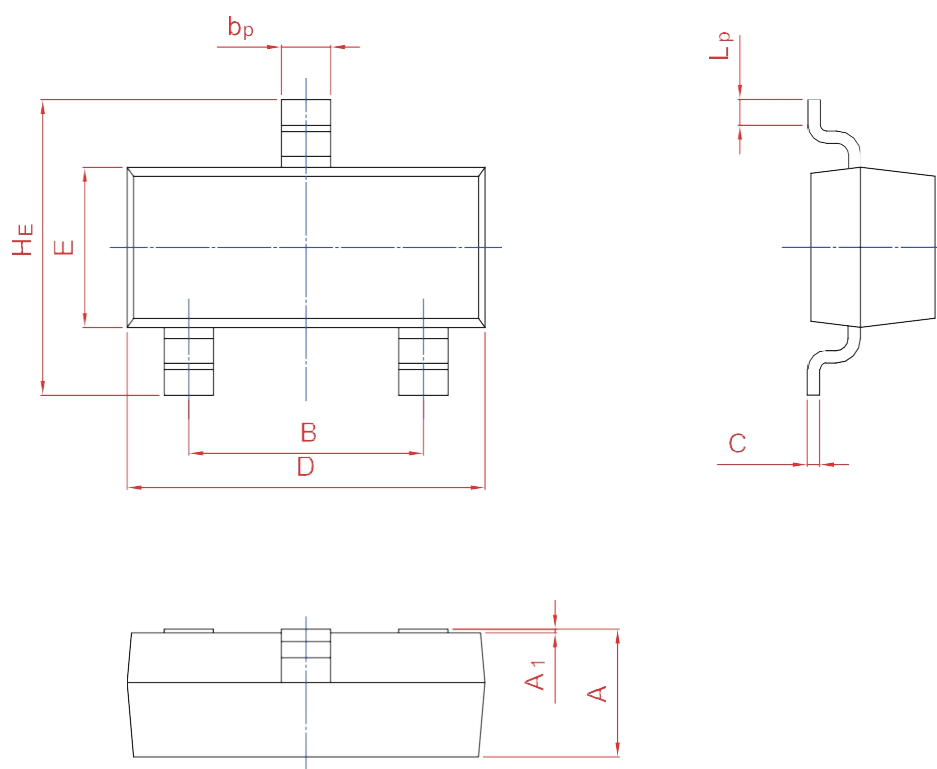
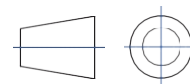
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b _p	C	D	E	H _E	A ₁	L _p
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20

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