

TOSHIBA Transistor Silicon PNP Epitaxial (PCT process)

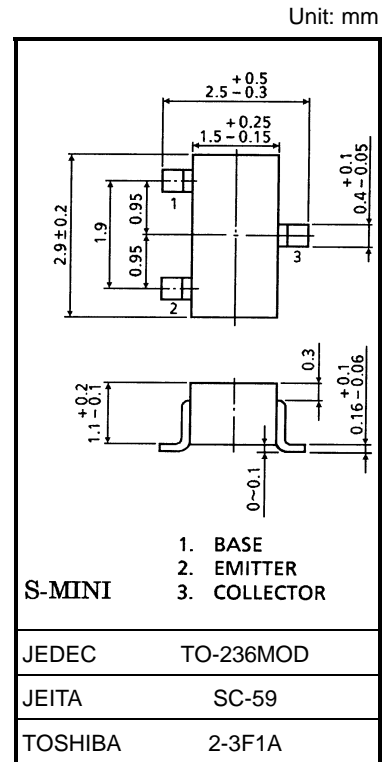
2SA1182

Audio Frequency Low Power Amplifier Applications
 Driver Stage Amplifier Applications
 Switching Applications

- Excellent h_{FE} linearity: $h_{FE} (2) = 25$ (min)
 at $V_{CE} = -6$ V, $I_C = -400$ mA
- Complementary to 2SC2859.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	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	-500	mA
Base current	I_B	-50	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55~125	°C



Weight: 0.012 g (typ.)

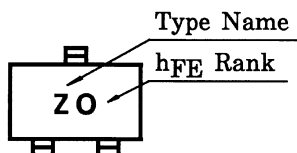
Electrical Characteristics (Ta = 25°C)

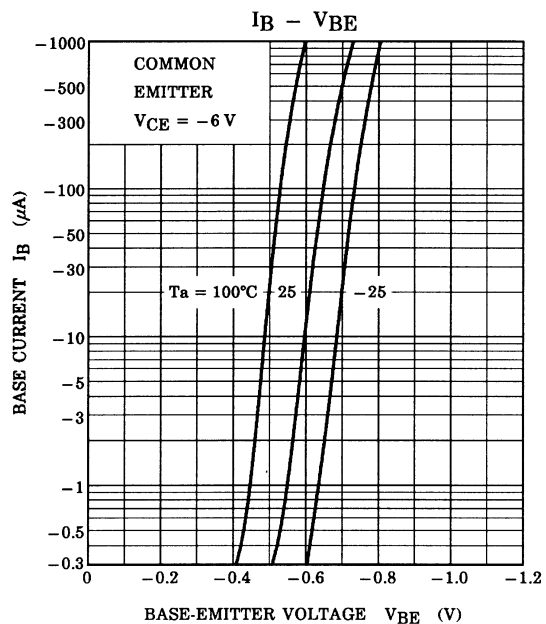
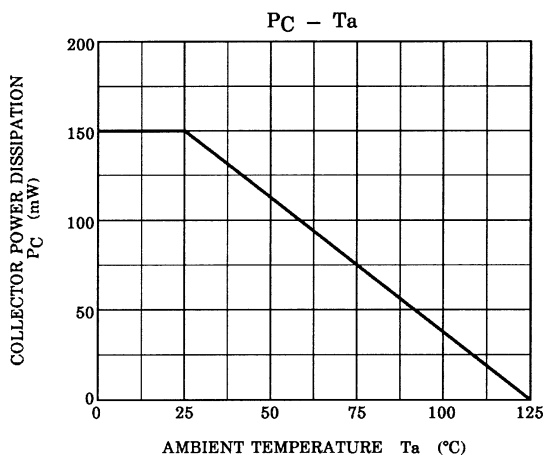
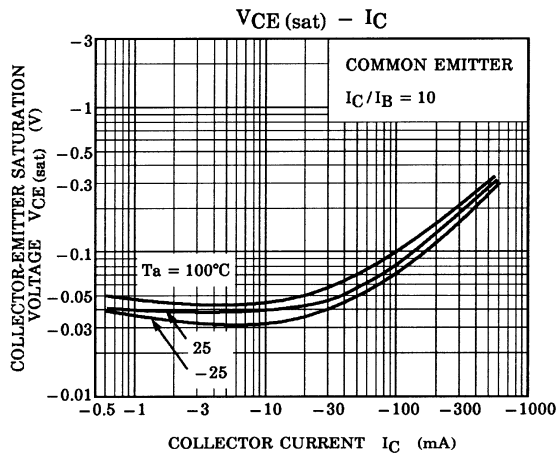
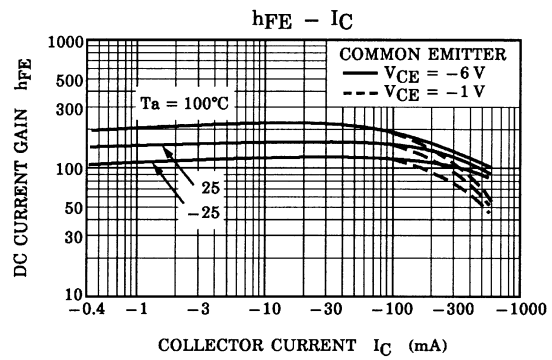
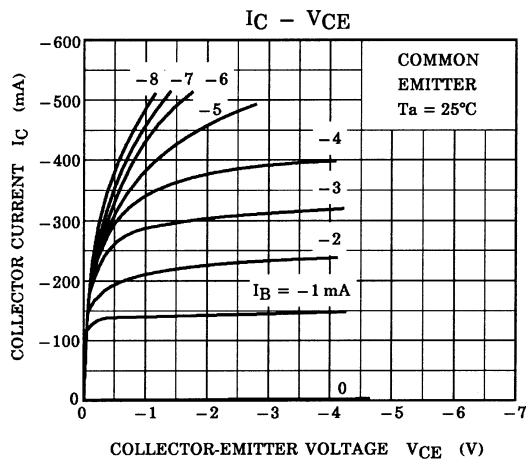
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB} = -35$ V, $I_E = 0$	—	—	-0.1	μ A
Emitter cut-off current	I_{EBO}	$V_{EB} = -5$ V, $I_C = 0$	—	—	-0.1	μ A
DC current gain (Note)	$h_{FE} (1)$	$V_{CE} = -1$ V, $I_C = -100$ mA	70	—	240	
	$h_{FE} (2)$	$V_{CE} = -6$ V, $I_C = -400$ mA	25	—	—	
Collector-emitter saturation voltage	$V_{CE} (sat)$	$I_C = -100$ mA, $I_B = -10$ mA	—	-0.1	-0.25	V
Base-emitter voltage	V_{BE}	$V_{CE} = -1$ V, $I_C = -100$ mA	—	-0.8	-1.0	V
Transition frequency	f_T	$V_{CE} = -6$ V, $I_C = -20$ mA	—	200	—	MHz
Collector output capacitance	C_{ob}	$V_{CB} = -6$ V, $I_E = 0$, $f = 1$ MHz	—	13	—	pF

Note: $h_{FE} (1)$ classification O(O): 70~140, Y(Y): 120~240, GR(G): 200~400 () Marking Symbol

$h_{FE} (2)$ classification O: 25 (min), Y: 40 (min), GR: 70 (min)

Marking





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