TOSHIBA Transistor Silicon PNP Epitaxial (PCT process)

2SA1182

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

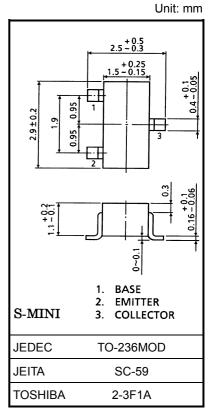
• Excellent hFE linearity: hFE (2) = 25 (min)

at $V_{CE} = -6 \text{ V}$, $I_C = -400 \text{ mA}$

• 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	Ι _C	-500	mA
Base current	Ι _Β	-50	mA
Collector power dissipation	P _C	150	mW
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



Electrical Characteristics (Ta = 25°C)

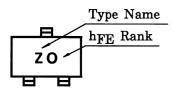
Weight: 0.012 g (typ.)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -35 V, I_E = 0$			-0.1	μA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, \text{ I}_{C} = 0$	_		-0.1	μA
DC current gain (Note) -	h _{FE (1)}	$V_{CE} = -1 \text{ V}, I_{C} = -100 \text{ mA}$	70	_	240	
	h _{FE (2)}	$V_{CE}=-6~V,~I_C=-400~mA$	25		_	
Collector-emitter saturation voltage	V _{CE (sat)}	$I_{C} = -100 \text{ mA}, I_{B} = -10 \text{ mA}$		-0.1	-0.25	V
Base-emitter voltage	V_{BE}	$V_{CE} = -1 \text{ V}, I_{C} = -100 \text{ mA}$	_	-0.8	-1.0	V
Transition frequency	f _T	$V_{CE} = -6 \text{ V}, \text{ I}_{C} = -20 \text{ mA}$	_	200	—	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -6 V$, $I_E = 0$, $f = 1 MHz$	_	13	_	pF

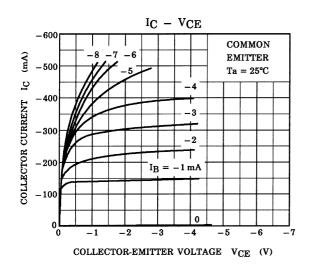
Note: hFE (1) classification O: 70~140, Y: 120~240

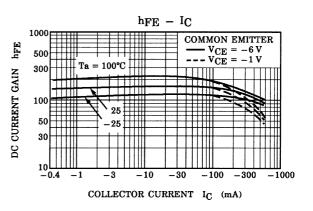
hFE (2) classification O: 25 (min), Y: 40 (min)

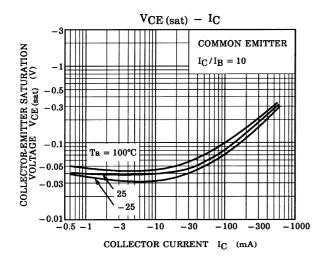
Marking

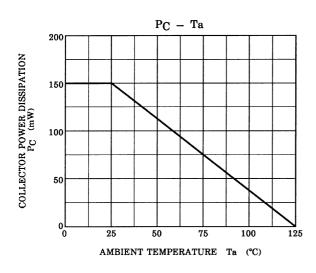


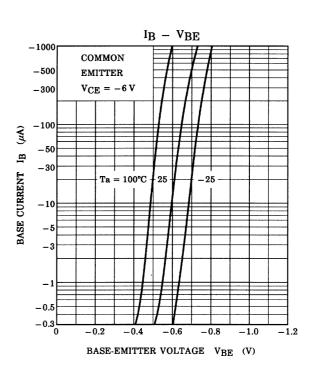
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