Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

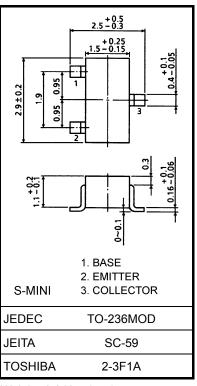
2SA1362

Low Frequency Power Amplifier Applications Power Switching Applications

- High DC current gain: $h_{FE} = 120 \sim 400$
- Low saturation voltage: VCE (sat) = -0.2 V (max) $({\rm IC} = -400~{\rm mA,~IB} = -8~{\rm mA})$
- Suitable for driver stage of small motor
- Small package

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-15	V
Collector-emitter voltage	V _{CEO}	-15	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	IC	-800	mA
Base current	ΙΒ	-160	mA
Collector power dissipation	PC	200	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

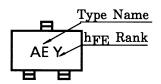


Weight: 0.012 g (typ.)

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Marking





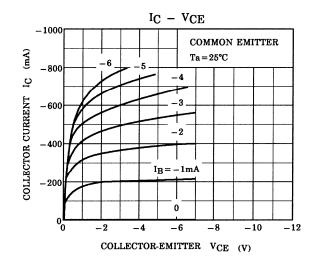
Electrical Characteristics (Ta = 25°C)

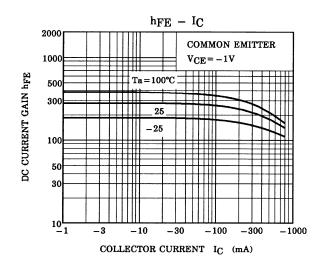
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -15 \text{ V}, I_E = 0$	_	_	-100	nA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_{C} = 0$	_	_	-100	nA
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -10 \text{ mA}, I_B = 0$	-15	_	_	V
DC current gain	h _{FE (1)} (Note)	V _{CE} = -1 V, I _C = -100 mA	120	_	400	
	h _{FE (2)}	$V_{CE} = -1 \text{ V, } I_{C} = -800 \text{ mA}$	40	_	_	
Collector-emitter saturation voltage	V _{CE} (sat)	$I_C = -400 \text{ mA}, I_B = -8 \text{ mA}$	_	_	-0.2	V
Base-emitter voltage	V_{BE}	$V_{CE} = -1 \text{ V, } I_{C} = -10 \text{ mA}$	-0.5	_	-0.8	V
Transition frequency	f _T	$V_{CE} = -5 \text{ V}, I_{C} = -10 \text{ mA}$	_	120	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_	13	_	pF

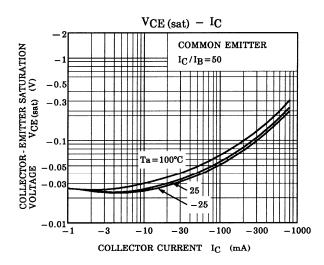
Note: $h_{FE\ (1)}$ classification Y (Y): 120~240, GR (G): 200~400

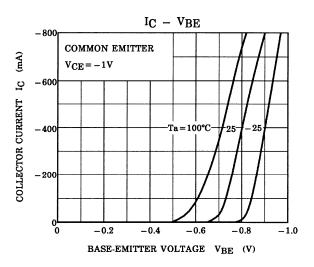
() marking symbol

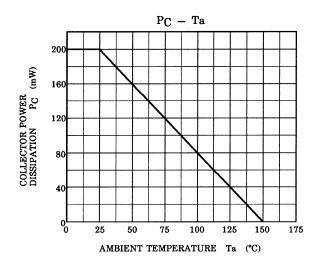
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