Unit: mm

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

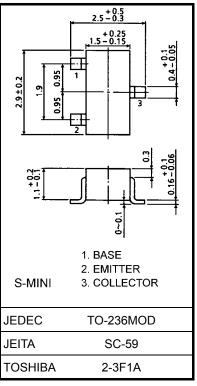
2SC3325

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

- Excellent hFE linearity: hFE (2) = 25 (min) (VCE = 6 V, IC = 400 mA)
- High voltage: VCEO = 50 V (min)
- Complementary to 2SA1313
- Small package

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	50	V
Collector-emitter voltage	V _{CEO}	50	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	IC	500	mA
Base current	ΙΒ	50	mA
Collector power dissipation	PC	200	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55 to 150	°C



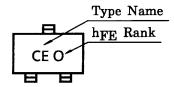
Weight: 0.012 g (typ.)

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, e

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)

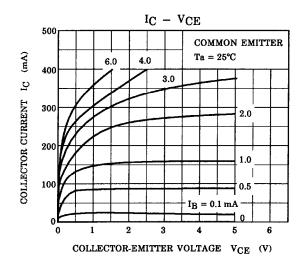
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = 50 \text{ V}, I_{E} = 0$	_	_	0.1	μА
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μА
DC current gain	h _{FE (1)} (Note)	V _{CE} = 1 V, I _C = 100 mA	70	_	240	
	h _{FE (2)} (Note)	V _{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 V, I _C = 100 mA	_	0.8	1.0	٧
Transition frequency	f _T	V _{CE} = 6 V, I _C = 20 mA	_	300	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 6 V, I _E = 0, f = 1 MHz	_	7	_	pF

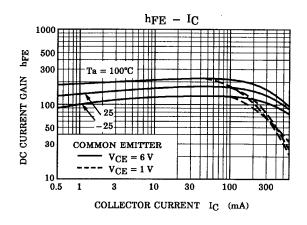
Note: h_{FE (1)} classification O: 70 to 140,

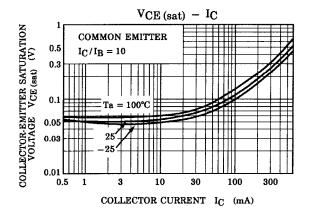
Y: 120 to 240

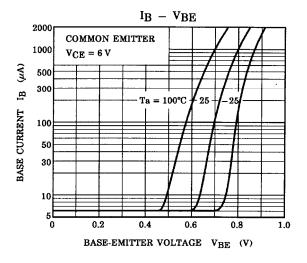
hFE (2) classification O: 25 (min),

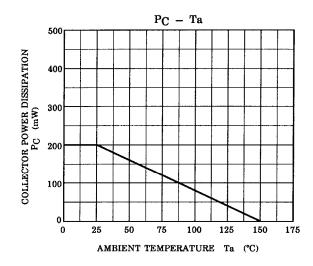
Y: 40 (min)











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