Unit: mm

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

2SC3265

Low Frequency Power Amplifier Applications Power Switching Applications

- High DC current gain: $h_{FE}(1) = 100$ to 320
- Low saturation voltage: VCE (sat) = 0.4 V (max)
- $(I_{C} = 500 \text{ mA}, I_{B} = 20 \text{ mA})$
- Complementary to 2SA1298

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	30	V
Collector-emitter voltage	V _{CEO}	25	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	Ι _C	800	mA
Base current	Ι _Β	160	mA
Collector power dissipation	PC	200	mW
Junction temperature	Тј	150	°C
Storage temperature range	T _{stg}	–55 to 150	°C

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

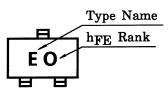
Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Electrical Characteristics (Ta = 25°C)

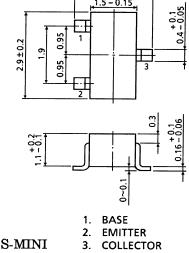
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = 30 \text{ V}, \text{ I}_{E} = 0$	_		0.1	μA
Emitter cut-off current	I _{EBO}	$V_{EB} = 5 V, I_{C} = 0$	_		0.1	μA
Collector-emitter breakdown voltage	V (BR) CEO	$I_{C} = 10 \text{ mA}, I_{B} = 0$	25			V
Emitter-base breakdown voltage	V (BR) EBO	$I_E = 0.1 \text{ mA}, I_C = 0$	5	—		V
DC current gain	h _{FE (1)} (Note)	V _{CE} = 1 V, I _C = 100 mA	100	_	320	
	h _{FE (2)}	$V_{CE} = 1 \text{ V}, \text{ I}_{C} = 800 \text{ mA}$	40			
Collector-emitter saturation voltage	V _{CE (sat)}	$I_{C} = 500 \text{ mA}, I_{B} = 20 \text{ mA}$	_		0.4	V
Base-emitter voltage	V _{BE}	$V_{CE} = 1 \text{ V}, \text{ I}_{C} = 10 \text{ mA}$	0.5		0.8	V
Transition frequency	f _T	$V_{CE} = 5 \text{ V}, \text{ I}_{C} = 10 \text{ mA}$	_	120		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, \text{ I}_{E} = 0, \text{ f} = 1 \text{ MHz}$		13	_	pF

Note: hFE (1) classification O: 100 to 200, Y: 160 to 320

Marking



Start of commercial production 1982-10

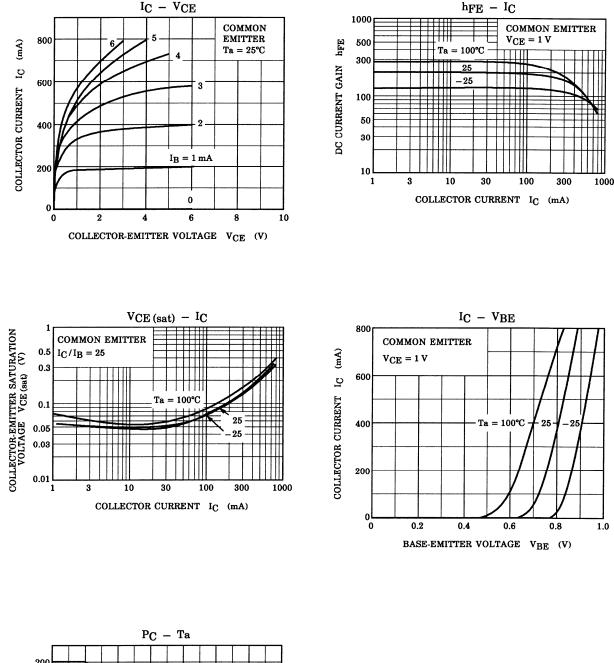


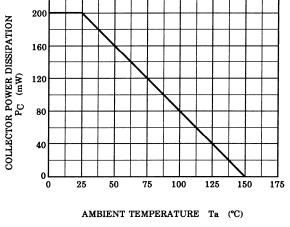
+0.5

JEDEC TO-236MOD JEITA SC-59 TOSHIBA 2-3F1A

Weight: 0.012 g (typ.)

TOSHIBA





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