TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

2SC3265

Low Frequency Power Amplifier Applications Power Switching Applications

High DC current gain: hFE (1) = 100~320
 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	IC	800	mA
Base current	Ι _Β	160	mA
Collector power dissipation	PC	200	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°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).

Unit: mm 2.5-0.3 1. BASE 2. EMITTER 3. COLLECTOR JEDEC TO-236MOD JEITA SC-59 TOSHIBA 2-3F1A

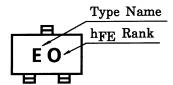
Weight: 0.012 g (typ.)

Electrical Characteristics (Ta = 25°C)

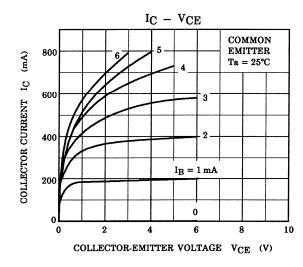
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = 30 \text{ V}, I_{E} = 0$	_	_	0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = 5 \text{ V}, I_{C} = 0$	_	_	0.1	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = 10 \text{ mA}, I_B = 0$	25		_	٧
Emitter-base breakdown voltage	V _(BR) EBO	$I_E = 0.1 \text{ mA}, I_C = 0$	5			>
DC current gain	h _{FE (1)} (Note)	V _{CE} = 1 V, I _C = 100 mA	100	_	320	
	h _{FE (2)}	V _{CE} = 1 V, I _C = 800 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 V, I _C = 10 mA	0.5	_	0.8	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 10 mA	_	120	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	_	13	_	pF

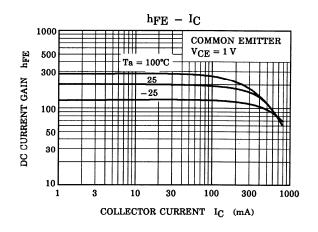
Note: h_{FE} (1) classification O: 100~200, Y: 160~320

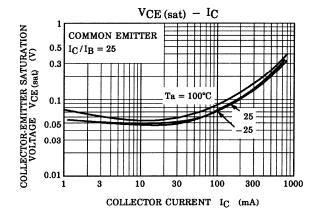
Marking

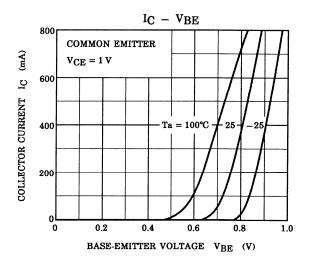


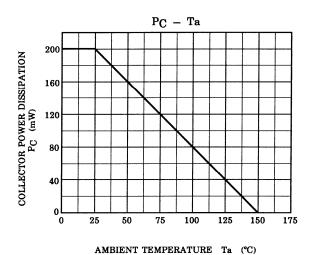
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