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) ($V_{CE} = 6 \text{ V}$, $I_{C} = 400 \text{ mA}$)
- High voltage: VCEO = 50 V (min)
- Complementary to 2SA1313
- Small package

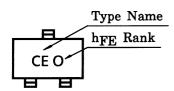
Maximum Ratings (Ta = 25°C)

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	Ι _Β	50	mA
Collector power dissipation	PC	200	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

1. BASE 2. EMITTER 3. COLLECTOR JEDEC TO-236MOD JEITA SC-59 TOSHIBA 2-3F1A

Weight: 0.012 g (typ.)

Marking





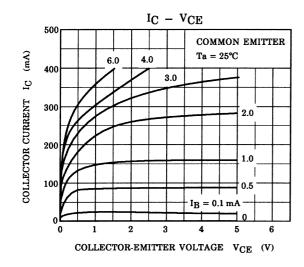
Electrical Characteristics (Ta = 25°C)

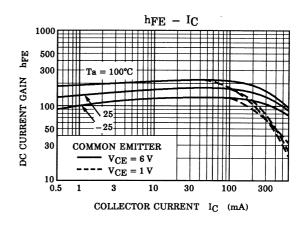
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = 50 \text{ V}, I_{E} = 0$	_	_	0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μА
DC current gain	h _{FE (1)} (Note)	V _{CE} = 1 V, I _C = 100 mA	70	_	240	
	h _{FE (2)} (Note)	V _{CE} = 6 V, I _C = 400 mA	25	_	_	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 100 mA, I _B = 10 mA	_	0.1	0.25	V
Base-emitter voltage	V _{BE}	V _{CE} = 1 V, I _C = 100 mA	_	0.8	1.0	V
Transition frequency	f _T	V _{CE} = 6 V, I _C = 20 mA	_	300	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = 6 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	_	7	_	pF

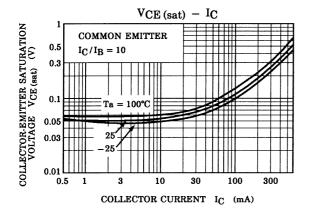
Note: h_{FE (1)} classification O: 70~140, Y: 120~240

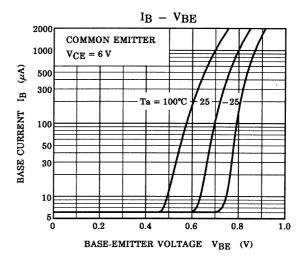
h_{FE (2)} classification O: 25 (min), Y: 40 (min)

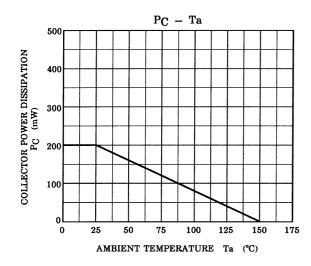
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