TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

2SC3267

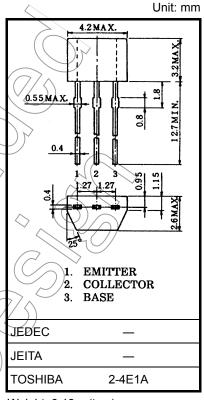
Power Amplifier Applications
Power Switching Applications

- Low saturation voltage: V_{CE} (sat) = 0.5 V (max) @IC = 2 A
- Complementary to 2SA1297

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	20	(V)
Collector-emitter voltage	V _{CEO}	20	(\sqrt{y})
Emitter-base voltage	V _{EBO}	6	V
Collector current	Ic	2	A
Base current	Ι _Β	0.5	> A
Collector power dissipation	PC	400	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.



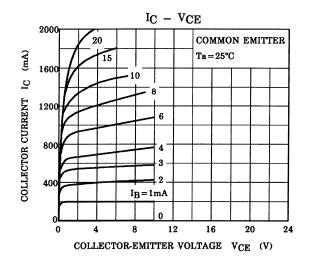
Weight: 0.13 g (typ.)

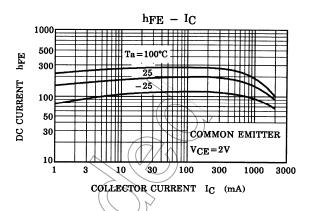
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions", "Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

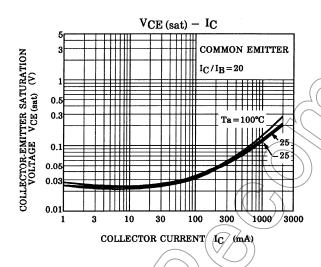
Electrical Characteristics (Ta = 25°C)

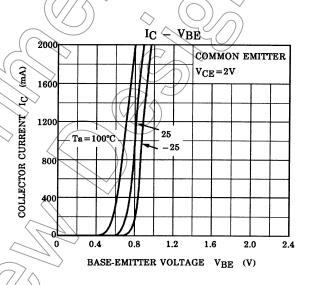
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	Ісво	$V_{CB} = 20 \text{ V}, I_{E} = 0$	_	_	0.1	μА
Emitter cut-off current	IÈBO	V _{EB} = 6 V, I _C = 0	_	_	0.1	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = 10 \text{ mA}, I_B = 0$	20	_	_	٧
Emitter-base breakdown voltage	V (BR) EBO	$I_E = 0.1 \text{ mA}, I_C = 0$	6	_	_	٧
DC current gain	h _{FE (1)} (Note)	V _{CE} = 2 V, I _C = 100 mA	120	_	700	
	h _{FE (2)}	V _{CE} = 2 V, I _C = 2 A	75	_	_	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 2 A, I _B = 0.1 A	_	_	0.5	٧
Base-emitter voltage	V_{BE}	V _{CE} = 2 V, I _C = 0.1 A	_	_	0.85	٧
Transition frequency	f _T	V _{CE} = 2 V, I _C = 0.5 A	_	120	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	30	_	pF

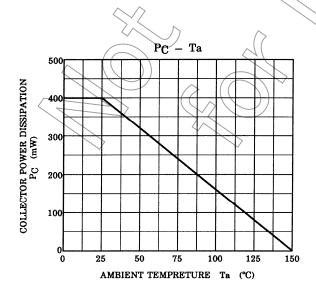
Note: h_{FE (1)} classification Y: 120~240, GR: 200~400, BL: 350~700

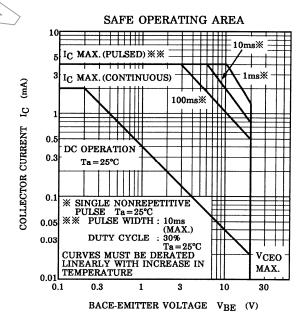












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