TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

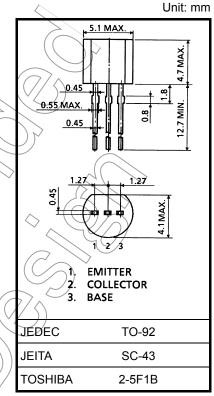
2SC3266

Power Amplifier Applications Power Switching Applications

- Low saturation voltage: V_{CE} (sat) = 0.5 V (max) (IC = 2 A)
- Complementary to 2SA1296

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	20	(V)
Collector-emitter voltage	V _{CEO}	20	$(\sqrt{\cancel{3}})$
Emitter-base voltage	V _{EBO}	6	V
Collector current	Ι _C	2	A
Base current	Ι _Β	0.5	> A
Collector power dissipation	PC	750	mW
Junction temperature	Тј	150	°C
Storage temperature range	T _{stg}	_55~150	°C



Weight: 0.21 g (typ.)

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.

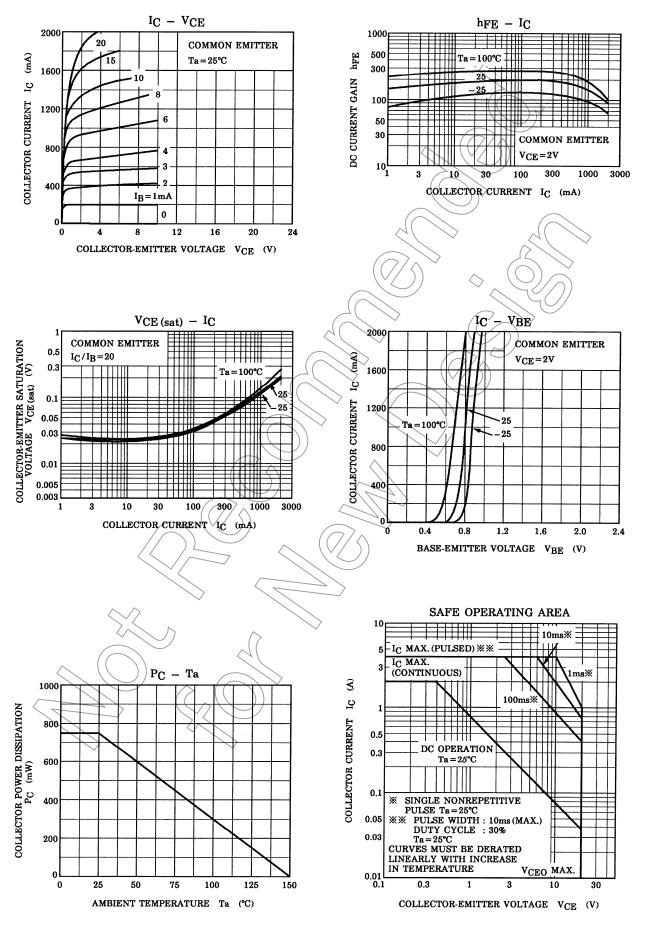
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Electrical Characteristics (Ta = 25°C)

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

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

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