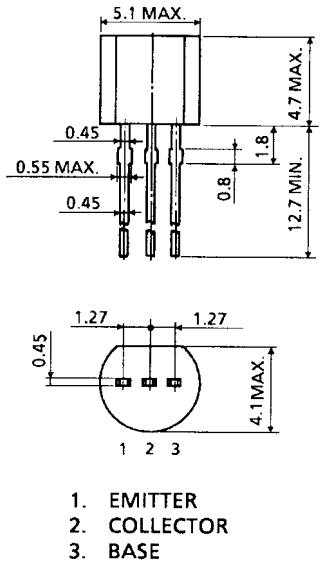
TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

2SC3266

Power Amplifier Applications
Power Switching Applications

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

Unit: mm



JEDEC	TO-92
JEITA	SC-43
TOSHIBA	2-5F1B

Weight: 0.21 g (typ.)

Maximum Ratings (Ta = 25°C)

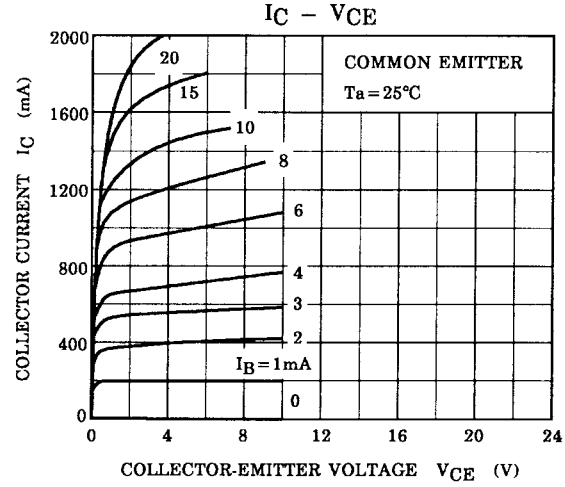
Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	20	V
Collector-emitter voltage	V_{CEO}	20	V
Emitter-base voltage	V_{EBO}	6	V
Collector current	I_C	2	A
Base current	I_B	0.5	A
Collector power dissipation	P_C	750	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	−55~150	°C

Electrical Characteristics (Ta = 25°C)

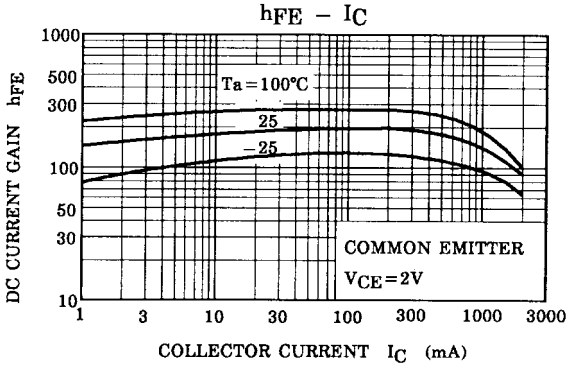
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I_{CBO}	V_{CB} = 20 V, I_E = 0	—	—	0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB} = 6 V, I_C = 0	—	—	0.1	μA
Collector-emitter breakdown voltage	$V_{(BR)\ CEO}$	I_C = 10 mA, I_B = 0	20	—	—	V
Emitter-base breakdown voltage	$V_{(BR)\ EBO}$	I_E = 0.1 mA, I_C = 0	6	—	—	V
DC current gain	$h_{FE\ (1)}$ (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 A, I_B = 0.1 A	—	—	0.5	V
Base-emitter voltage	V_{BE}	V_{CE} = 2 V, I_C = 0.1 A	—	—	0.85	V
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

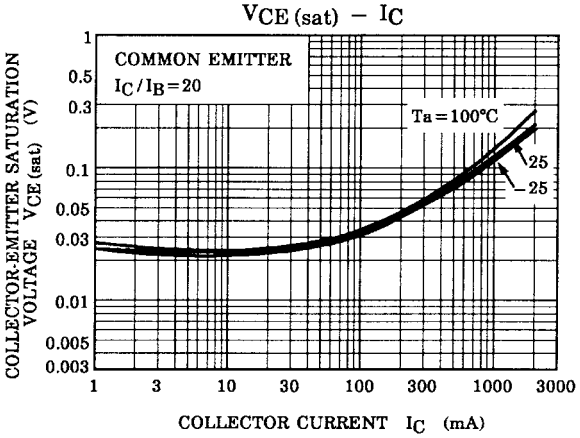
$I_C - V_{CE}$



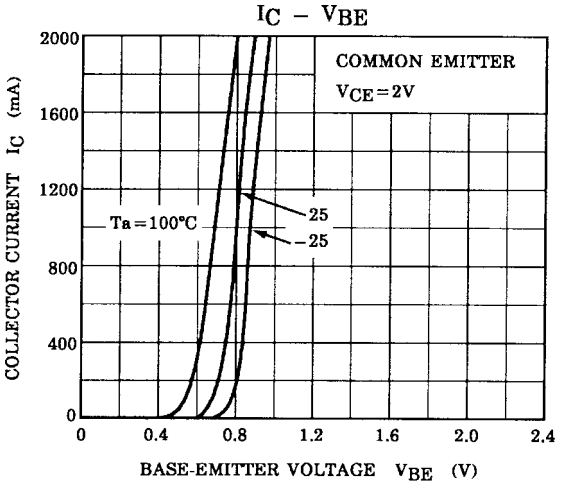
$h_{FE} - I_C$



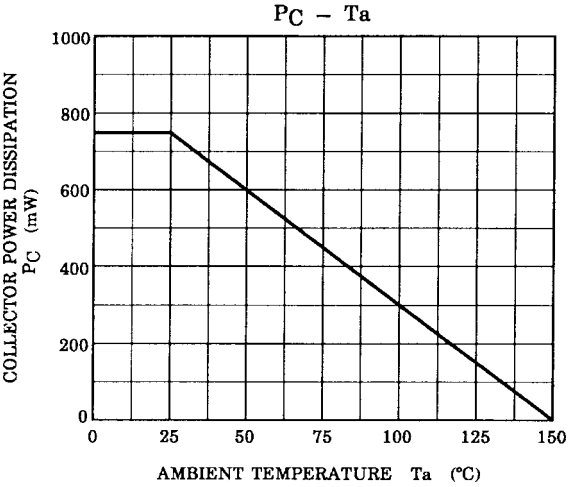
$V_{CE\,(sat)} - I_C$



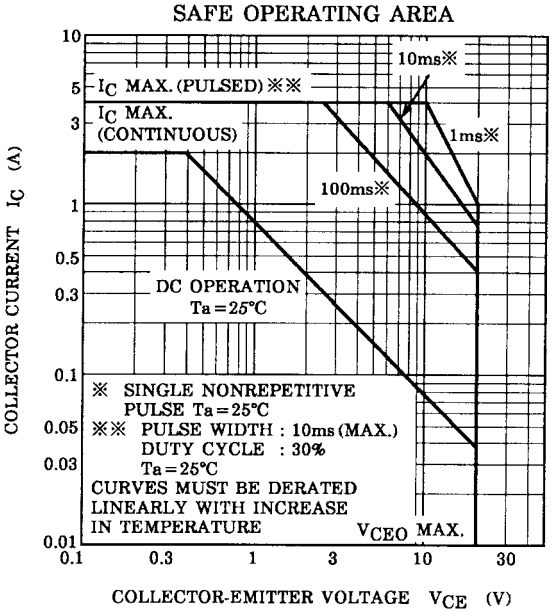
$I_C - V_{BE}$



$P_C - Ta$



SAFE OPERATING AREA



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000707EAA

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