TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

2SC3805

TV Horizontal Deflection Output Applications
TV Chroma Output Applications

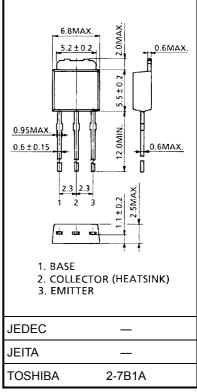
• High voltage: V_{CEO} = 300 V

• Low output capacitance: $C_{ob} = 3.0 \text{ pF (typ.)}$

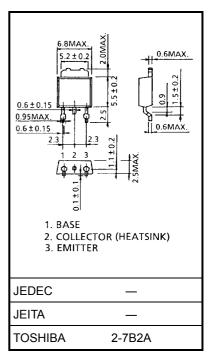
Maximum Ratings (Ta = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V_{CBO}	300	V	
Collector-emitter voltage		V _{CEO}	300	٧	
Emitter-base voltage		V _{EBO}	7	V	
Collector current	DC	IC	100	mA	
	Pulse	I _{CP}	200		
Base current		ΙΒ	50	mA	
Collector power dissipation (Tc = 25°C)		PC	10	W	
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	−55 to 150	°C	

Unit: mm



Weight: 0.36 g (typ.)

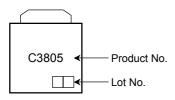


Weight: 0.36 g (typ.)

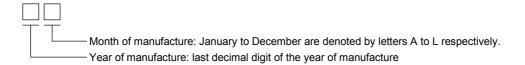
Electrical Characteristics (Ta = 25°C)

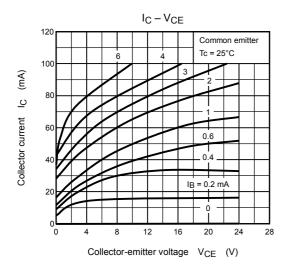
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 240 V, I _E = 0	_	_	1.0	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 7 V, I _C = 0	1	1	1.0	mA
DC current gain	h _{FE (1)}	V _{CE} = 10 V, I _C = 0.5 mA	20	_	_	
	h _{FE (2)}	V _{CE} = 10 V, I _C = 20 mA	30	_	200	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 10 mA, I _B = 1 mA	_	_	1.0	V
Base-emitter saturation voltage	V _{BE (sat)}	I _C = 10 mA, I _B = 1 mA	_	_	1.0	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 20 mA	40	70	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 20 V, I _E = 0, f = 1 MHz	_	3.0	_	pF

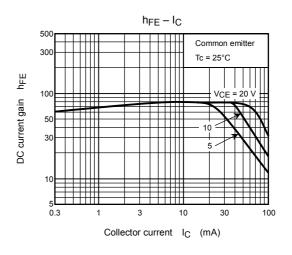
Marking

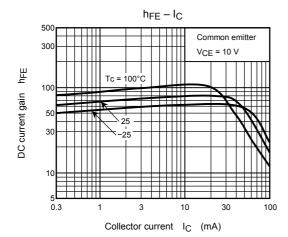


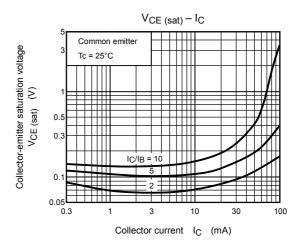
Explanation of Lot No.

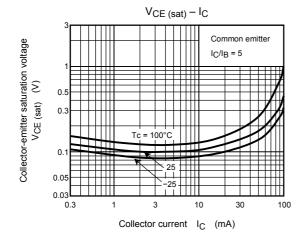


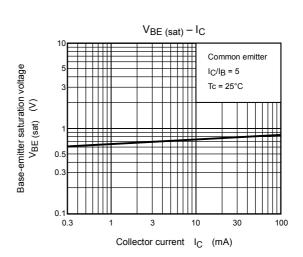




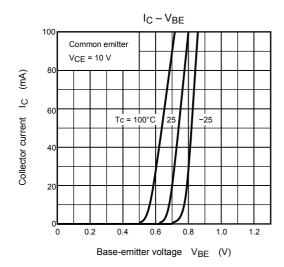


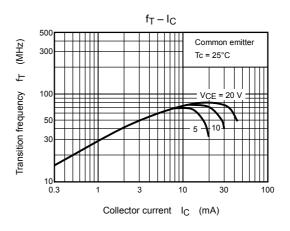


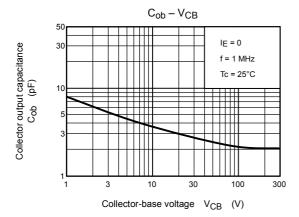


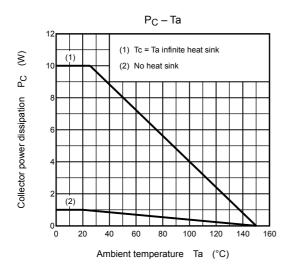


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