TOSHIBA Transistor Silicon NPN Triple Diffuse Type (PCT Process)

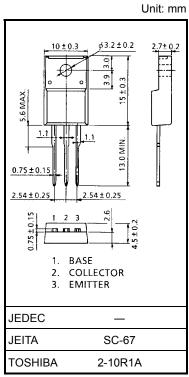
2SC4544

High-Voltage Switching and Amplifier Applications Color TV Horizontal Driver Applications Color TV Chroma Output Applications

- High voltage: V (BR) CEO = 300 V
- Small collector output capacitance: Cob = 3.0 pF (typ.)
- Collector metal (fin) is fully covered with mold resin.

Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V _{CBO}	300	V	
Collector-emitter voltage		V _{CEO}	300	V	
Emitter-base voltage		V _{EBO}	7	V	
Collector current		IC	100	mA	
Base current		Ι _Β	50	mA	
Collector power dissipation	Ta = 25°C	Pc	2	W	
	Tc = 25°C	FC	8		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	

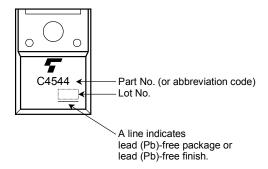


Weight: 1.7 g (typ.)

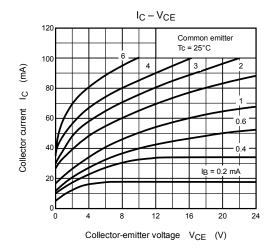
Electrical Characteristics (Tc = 25°C)

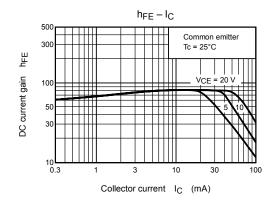
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 240 V, I _E = 0	_	_	1.0	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 7 V, I _C = 0	_	_	1.0	μΑ
DC current gain	h _{FE (1)}	V _{CE} = 10 V, I _C = 4 mA	20	_	_	
	h _{FE (2)}	V _{CE} = 10 V, I _C = 20 mA	30	1	200	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 10 mA, I _B = 1 mA	_	_	1.0	٧
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	50	70	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 20 V, I _E = 0, f = 1 MHz	_	3.0	_	pF

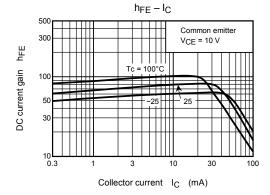
Marking

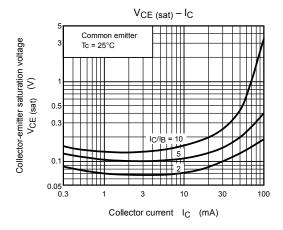


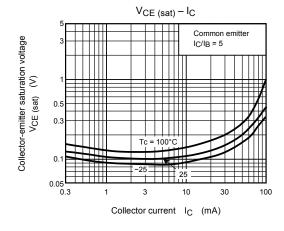
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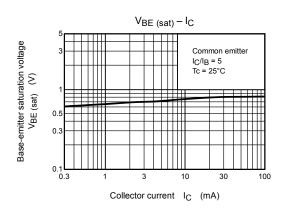


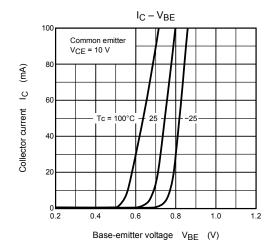


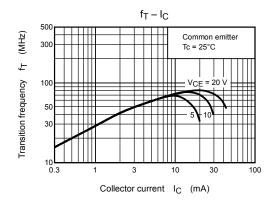


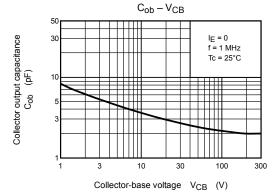


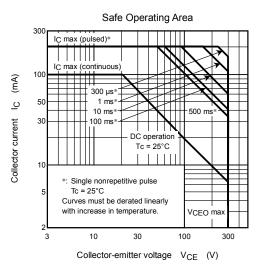


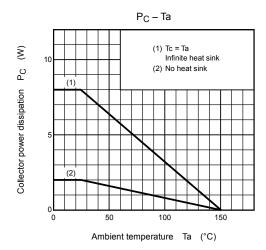












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