查询"2SC4544_070<mark>銖瘾商</mark>Transistor Silicon NPN Triple Diffuse Type (PCT Process)

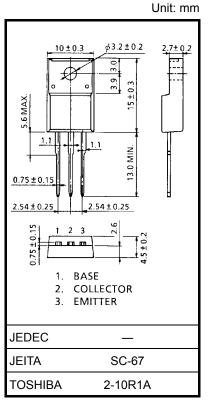
2SC4544

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: $C_{ob} = 3.0 \text{ pF (typ.)}$
- Collector metal (fin) is fully covered with mold resin.

Absolute 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		I _C	100	mA	
Base current		I _B	50	mA	
Collector power dissipation	Ta = 25°C	P _C	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.)

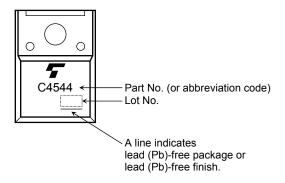
Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) 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 (Tc = 25°C)

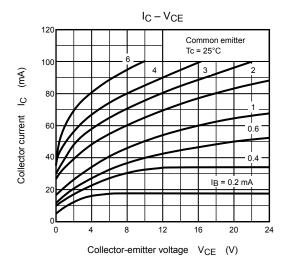
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 240 V, I _E = 0	_	_	1.0	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 7 V, I _C = 0	_	_	1.0	μΑ
DC current gain	h _{FE (1)}	V _{CE} = 10 V, I _C = 4 mA	20	_	_	
	h _{FE (2)}	V _{CE} = 10 V, I _C = 20 mA	30	_	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

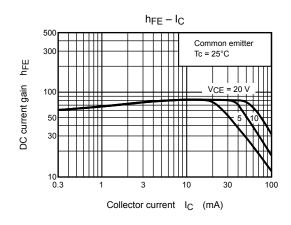
Marking

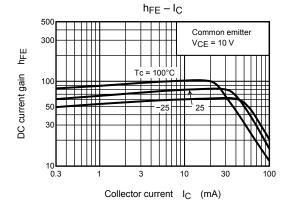


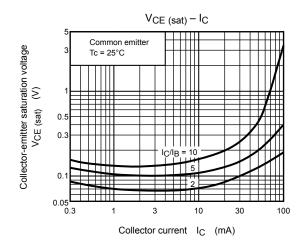
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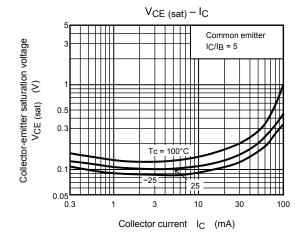
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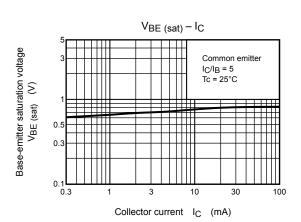




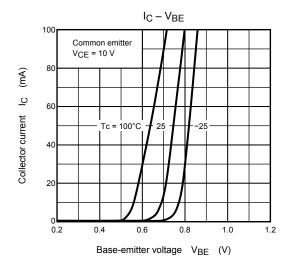


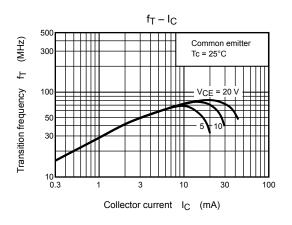


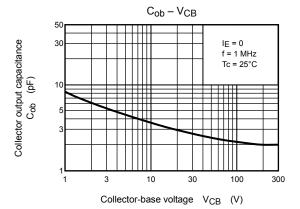


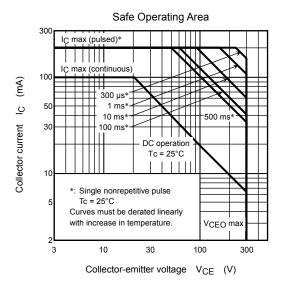


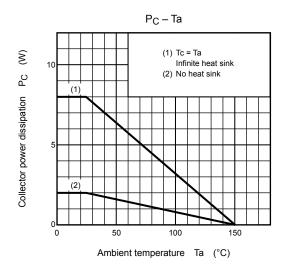
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