TOSHIBA Transistor Silicon NPN Triple Diffused Type (PCT process)

2SC3333

High Voltage Switching Applications Color TV Chroma Output Applications

High voltage: $V_{\rm CEO} = 250 \text{ V}$

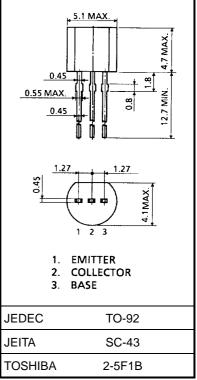
Low Cre: 1.8 pF (max)

Complementary to 2SA1320

Maximum Ratings (Ta = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V _{CBO}	250	V	
Collector-emitter voltage		V _{CEO}	250	V	
Emitter-base voltage		V _{EBO}	5	V	
Collector current	DC	IC	50	mA	
	Pulsed	I _{CP}	100		
Base current		I _B	20	mA	
Collector power dissipation		PC	0.6	W	
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55~150	°C	

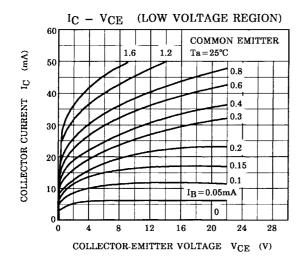
Unit: mm

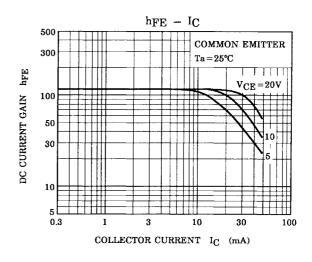


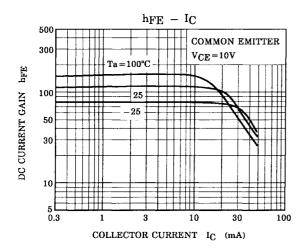
Weight: 0.21 g (typ.)

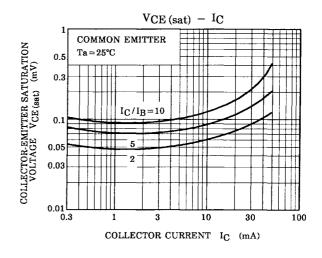
Electrical Characteristics (Ta = 25°C)

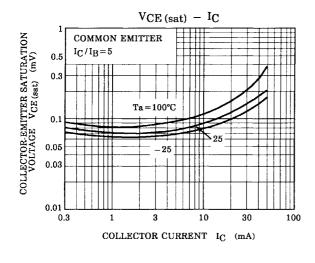
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 200 V, I _E = 0	_	_	0.1	μА
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μА
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = 1 \text{ mA}, I_B = 0$	250	_	_	V
DC current gain	h _{FE}	V _{CE} = 20 V, I _C = 25 mA	50	_	_	
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 10 mA, I _B = 1 mA	_	_	1.5	V
Base-emitter voltage	V _{BE}	V _{CE} = 20 V, I _C = 25 mA	_	0.75	_	V
Transition frequency	f _T	V _{CE} = 10 V, I _C = 10 mA	60	100	_	MHz
Reverse transfer capacitance	C _{re}	V _{CB} = 30 V, I _E = 0, f = 1 MHz	—		1.8	pF

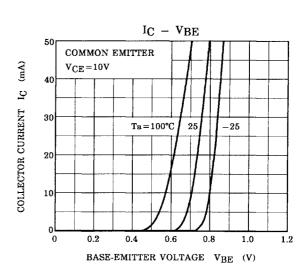


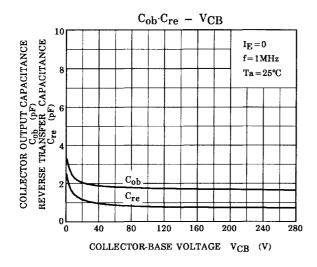


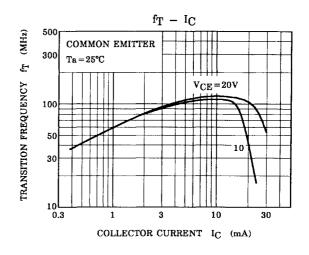


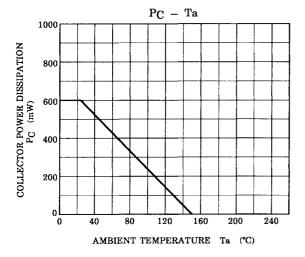


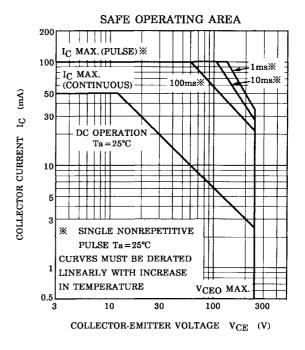












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