TOSHIBA Transistor Silicon PNP Triple Diffused Type (PCT process)

2SA1320

High Voltage Switching Applications Color TV Chroma Output Applications

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

• Low Cre: 1.8 pF (max)

• Complementary to 2SC3333

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		Ι _Β	-20	mA	
Collector power dissipation		PC	0.6	W	
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55~150	°C	

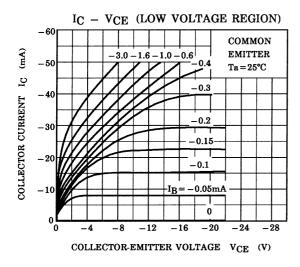
Unit: mm 5.1 MAX. 0.45 0.45 0.45 1.27 1.27 XWY. 4 1.23 1. EMITTER 2. COLLECTOR 3. BASE JEDEC TO-92 JEITA SC-43 TOSHIBA 2-5F1B

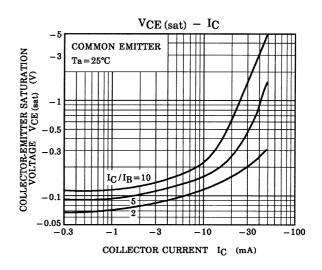
Weight: 0.21 g (typ.)

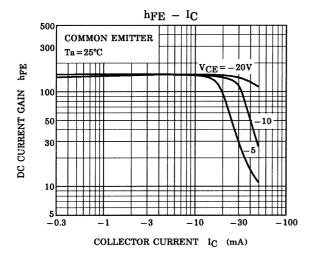
Electrical Characteristics (Ta = 25°C)

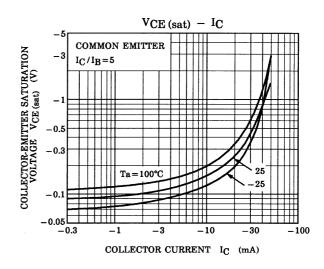
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -200 \text{ V}, I_E = 0$	_	_	-0.1	μА
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_{C} = 0$	_	_	-0.1	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -1 \text{ mA}, I_B = 0$	-250	_	_	V
DC current gain	h _{FE}	$V_{CE} = -20 \text{ V}, I_{C} = -25 \text{ mA}$	50	_	_	
Collector-emitter saturation voltage	V _{CE (sat)}	$I_C = -10 \text{ mA}, I_B = -1 \text{ mA}$	_	_	-1.5	V
Base-emitter voltage	V _{BE}	$V_{CE} = -20 \text{ V}, I_{C} = -25 \text{ mA}$	_	-0.75	_	V
Transition frequency	f _T	$V_{CE} = -10 \text{ V}, I_{C} = -10 \text{ mA}$	60	80	_	MHz
Reverse transfer capacitance	C _{re}	$V_{CB} = -30 \text{ V}, I_E = 0, f = 1 \text{ MHz}$	_	_	1.8	pF

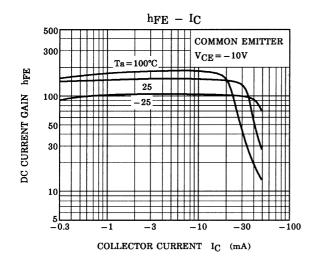
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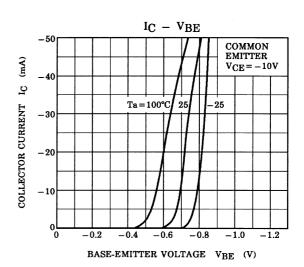




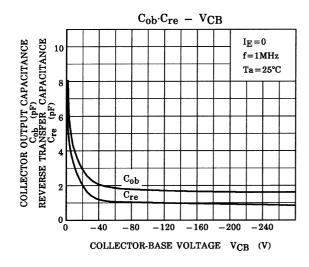


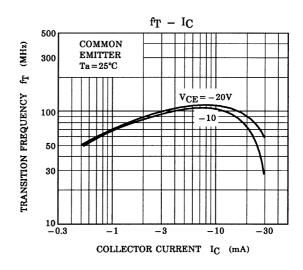


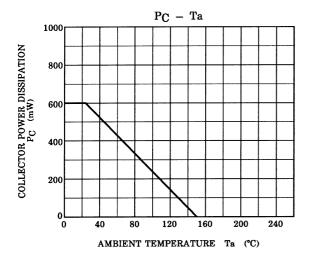


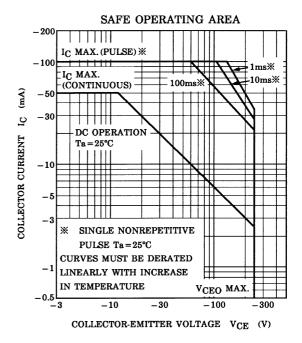


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