TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

2SC2383

Color TV Vertical Deflection Output Applications Color TV Class-B Sound Output Applications

- High breakdown voltage: VCEO = 160 V
- Large continuous collector current capability
- Recommended for vertical deflection output & sound output applications for line-operated TVs.
- Complementary to 2SA1013

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	160	V
Collector-emitter voltage	V _{CEO}	160	V
Emitter-base voltage	V _{EBO}	6	V
Collector current	I _C	1	Α
Base current	Ι _Β	0.5	Α
Collector power dissipation	PC	900	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	−55 to 150	°C

1. EMITTER 2. COLLECTOR 3. BASE Unit: mm 1. EMITTER 2. COLLECTOR 3. BASE

2-5J1A

Weight: 0.36 g (typ.)

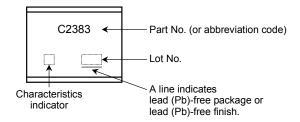
TOSHIBA

Electrical Characteristics (Ta = 25°C)

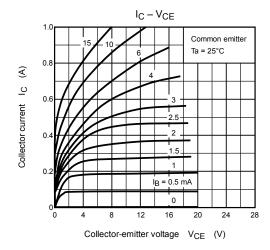
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 150 V, I _E = 0	_	_	1.0	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 6 V, I _C = 0	_	_	1.0	μA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	160	_	_	V
DC current gain	h _{FE} (Note)	V _{CE} = 5 V, I _C = 200 mA	60	_	320	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = 500 mA, I _B = 50 mA	_	_	1.5	V
Base-emitter voltage	V_{BE}	V _{CE} = 5 V, I _C = 5 mA	0.45	_	0.75	V
Transition frequency	f _T	V _{CE} = 5 V, I _C = 200 mA	20	100	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_		20	pF

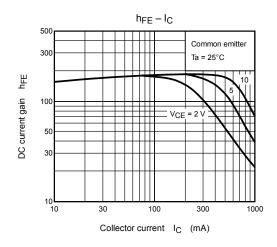
Note: hFE classification R: 60 to 120, O: 100 to 200, Y: 160 to 320

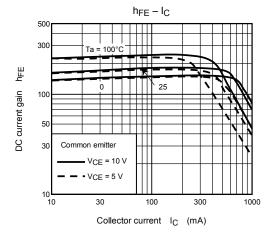
Marking

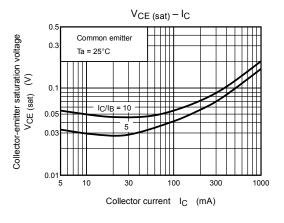


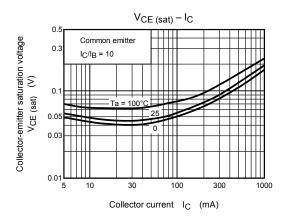
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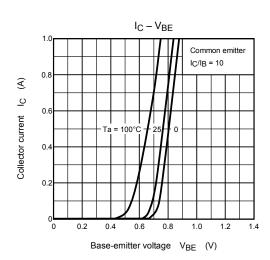


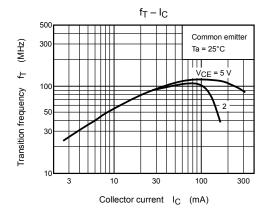


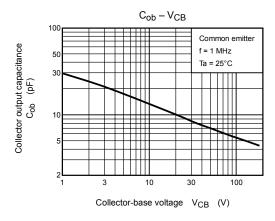


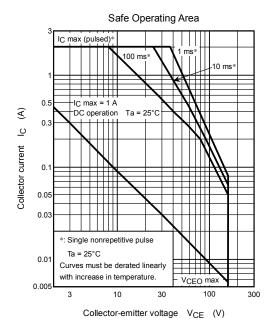












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Handbook" etc..

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