TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

2SA1408

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

- Large collector current and collector power dissipation capability
- Recommended for vertical deflection output and sound output applications for line-operated TV.
- Complementary to 2SC3621

Absolute Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit
Collector-base voltage		V _{CBO}	-150	V
Collector-emitter voltage		V _{CEO}	-150	V
Emitter-base voltage		V _{EBO}	-6	V
Collector current		IC	-1.5	Α
Base current		I _B	-1.0	A
Collector power dissipation	Ta = 25°C	Da (1.5	$\langle \langle \rangle_{W}$
	Tc = 25°C	Pc 10		VV
Junction temperature		Ţį	150	°C
Storage temperature range		(T _{stg} \	-55 to 150	∕ °C

1.0MAX. 1.9MAX. 0.75±0.15 2.3±0.1 2

Weight: 0.82 g (typ.)

Note: Using continuously under heavy loads (e.g. the application of high

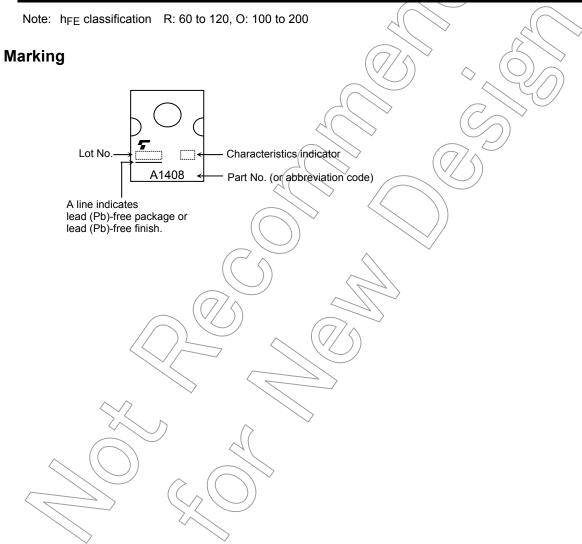
temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

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).

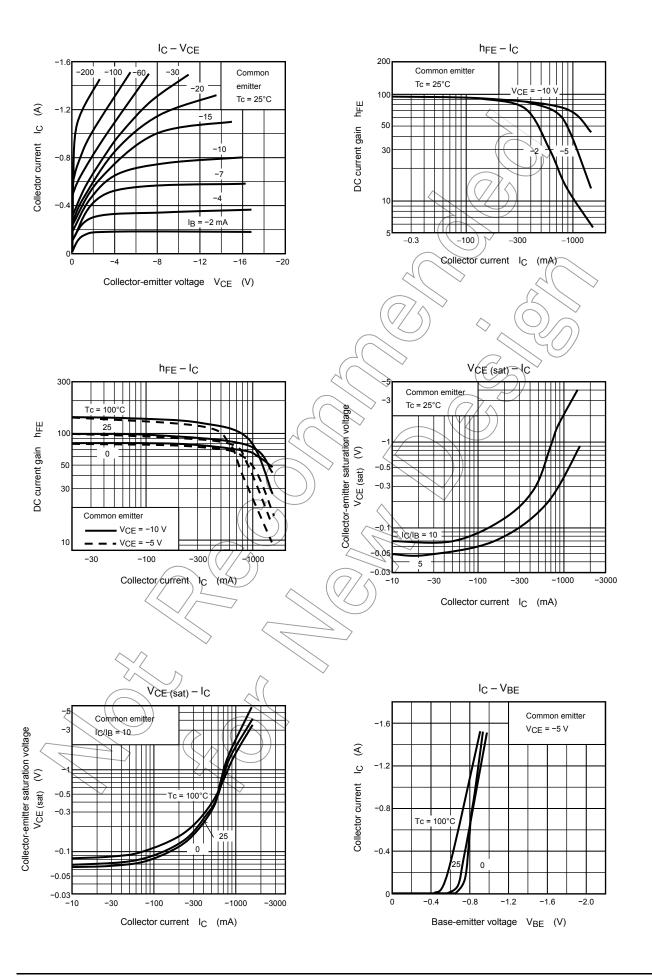


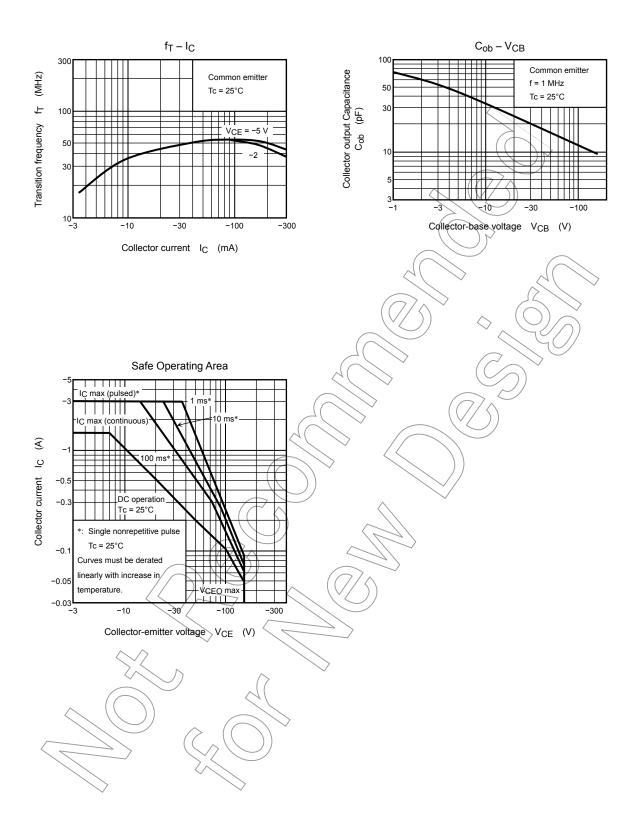
Electrical Characteristics (Tc = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = −150 V, I _E = 0	_	_	-1.0	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -6 \text{ V}, I_{C} = 0$	_	_	-1.0	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -10 \text{ mA}, I_B = 0$	-150	_	_	V
DC current gain	h _{FE} (Note)	V _{CE} = -5 V, I _C = -200 mA	60) }	200	
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)5	_	-0.8	V
Transition frequency	f _T	V _{CE} = -5 V, I _C = -200 mA	15	50	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_	_	35	pF



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