Unit: mm

TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT Process)

# 2SC2482

High-Voltage Switching and Amplifier Applications Color TV Horizontal Driver Applications Color TV Chroma Output Applications

- High breakdown voltage: VCEO = 300 V
- Small collector output capacitance: Cob = 3.0 pF (typ.)
- Recommended for chroma output and driver applications for line-operated TV horizontal.

### Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V <sub>CBO</sub>	300	V
Collector-emitter voltage	V <sub>CEO</sub>	300	V
Emitter-base voltage	V <sub>EBO</sub>	7	V
Collector current	IC	100	mA
Base current	ΙB	50	mA
Collector power dissipation	PC	900	mW
Junction temperature	Tj	150	°C
Storage temperature range	T <sub>stg</sub>	-55 to 150	°C

1. EMITTER
2. COLLECTOR
3. BASE

JEDEC TO-92MOD

JEITA —

TOSHIBA 2-5J1A

Weight: 0.36 g (typ.)

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

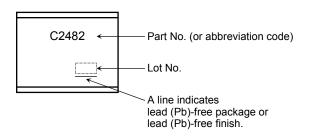
temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

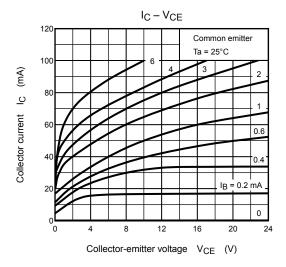
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

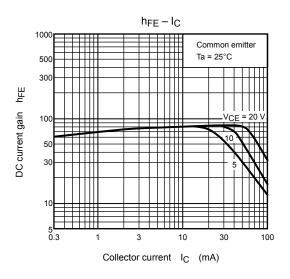
# Electrical Characteristics (Ta = 25°C)

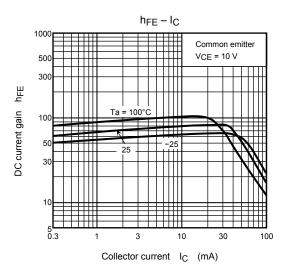
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 240 V, I <sub>E</sub> = 0	_	_	1.0	μΑ
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 7 V, I <sub>C</sub> = 0	_	_	1.0	μA
DC current gain	h <sub>FE (1)</sub>	V <sub>CE</sub> = 10 V, I <sub>C</sub> = 4 mA	20	_	_	
	h <sub>FE (2)</sub>	V <sub>CE</sub> = 10 V, I <sub>C</sub> = 20 mA	30	_	150	
Collector-emitter saturation voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> = 10 mA, I <sub>B</sub> = 1 mA	_	_	1.0	٧
Base-emitter saturation voltage	V <sub>BE</sub> (sat)	I <sub>C</sub> = 10 mA, I <sub>B</sub> = 1 mA	_	_	1.0	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 10 V, I <sub>C</sub> = 20 mA	50	_	_	MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 20 V, I <sub>E</sub> = 0, f = 1 MHz	_	3.0	_	pF

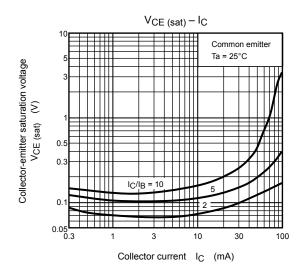
## Marking

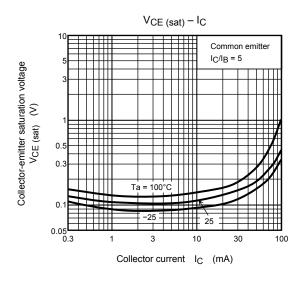


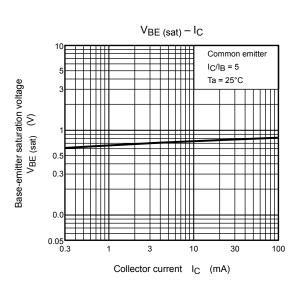


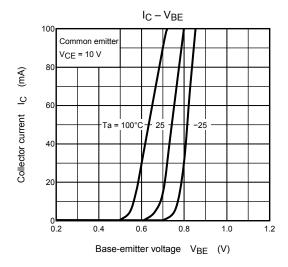


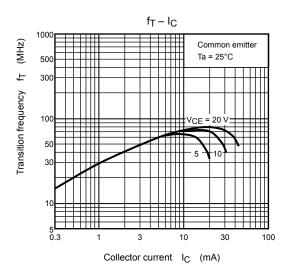


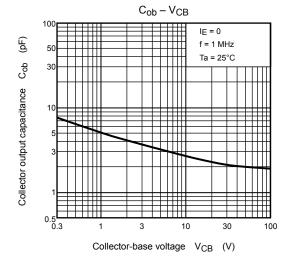


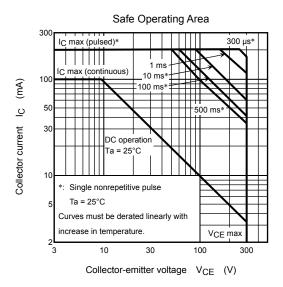












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