

TOSHIBA Transistor Silicon NPN Triple Diffused Type

2SC5466

Dynamic Focus Applications

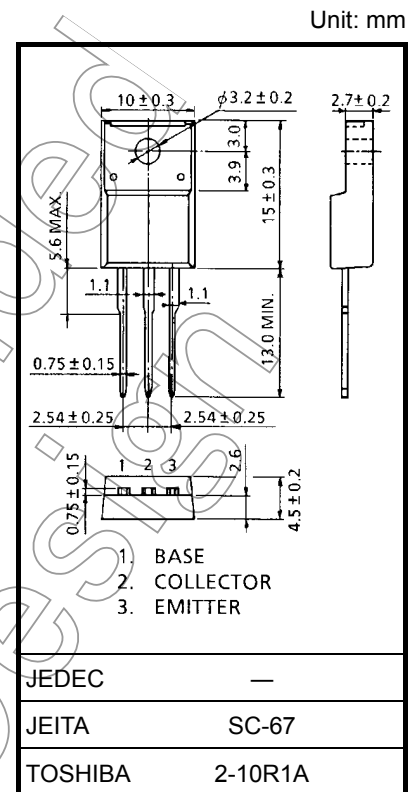
High Voltage Switching Applications

High Voltage Amplifier Applications

- High voltage: $V_{CEO} = 800\text{ V}$

Absolute Maximum Ratings ($T_c = 25^\circ\text{C}$)

Characteristics		Symbol	Rating	Unit
Collector-base voltage		V_{CBO}	800	V
Collector-emitter voltage		V_{CEO}	800	V
Emitter-base voltage		V_{EBO}	5	V
Collector current		I_C	50	mA
Base current		I_B	25	mA
Collector power dissipation	$T_a = 25^\circ\text{C}$	P_C	2.0	W
	$T_c = 25^\circ\text{C}$		10	
Junction temperature		T_j	150	$^\circ\text{C}$
Storage temperature range		T_{stg}	-55 to 150	$^\circ\text{C}$



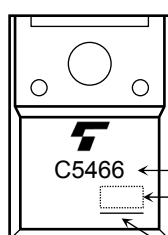
Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) 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).

Weight: 1.7 g (typ.)

Electrical Characteristics (Tc = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB} = 640 \text{ V}, I_E = 0$	—	—	1.0	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 5 \text{ V}, I_C = 0$	—	—	10	μA
DC current gain	h_{FE}	$V_{CE} = 5 \text{ V}, I_C = 7 \text{ mA}$	15	—	—	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 20 \text{ mA}, I_B = 4 \text{ mA}$	—	—	1.0	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = 20 \text{ mA}, I_B = 4 \text{ mA}$	—	—	1.5	V
Transition frequency	f_T	$V_{CE} = 10 \text{ V}, I_C = 3 \text{ mA}$	—	5.5	—	MHz
Collector output capacitance	C_{ob}	$V_{CB} = 100 \text{ V}, f = 1 \text{ MHz}$	—	2.2	—	pF

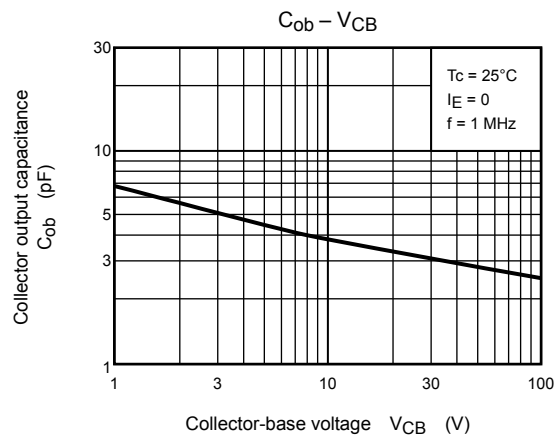
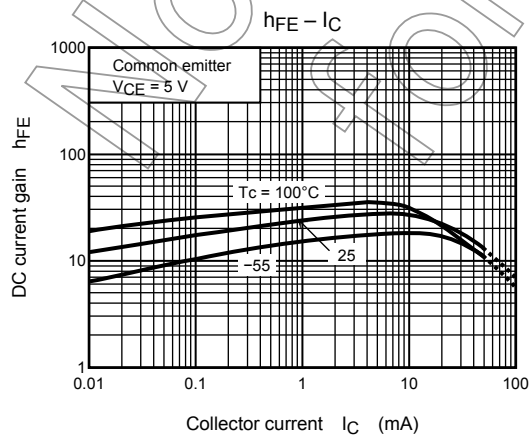
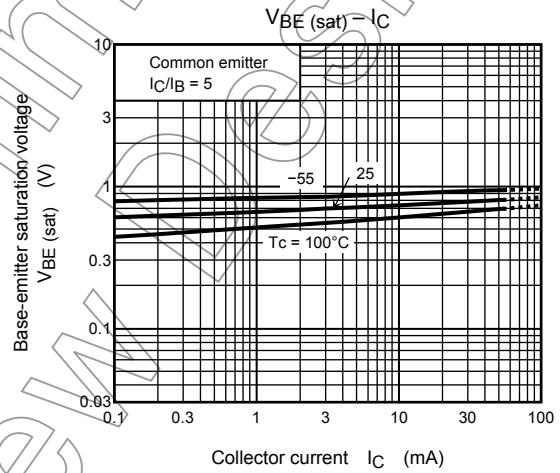
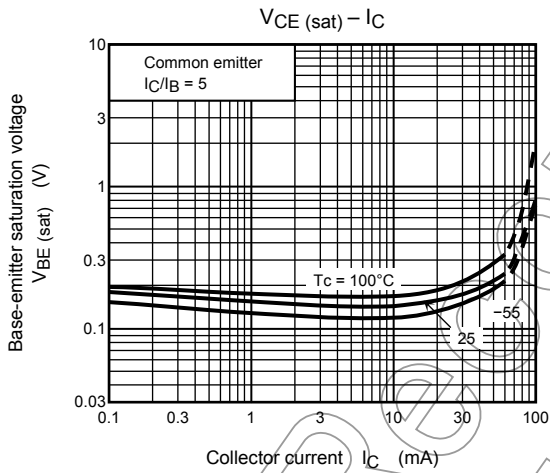
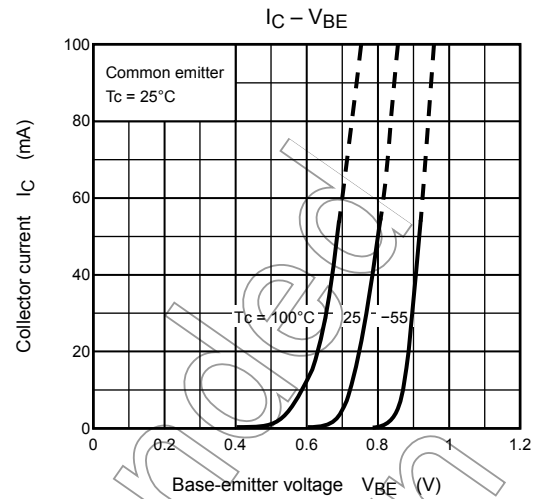
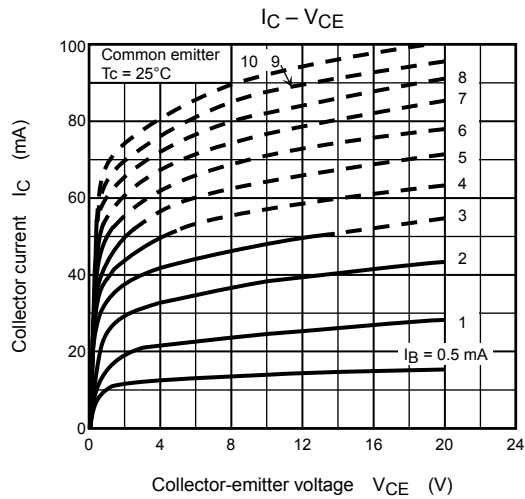
Marking

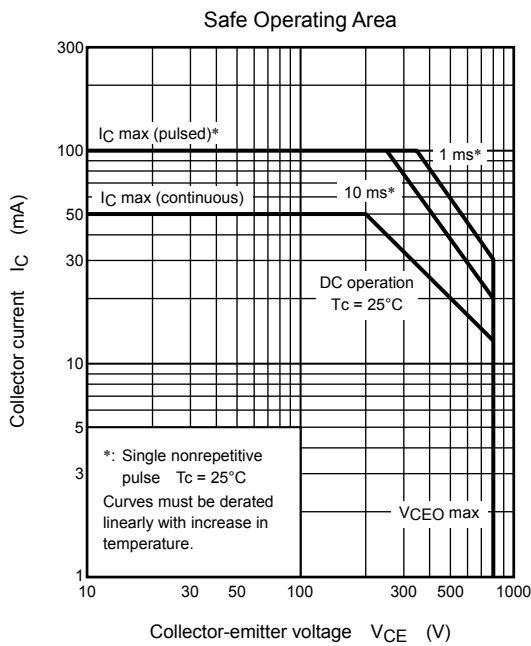


Part No. (or abbreviation code)

Lot No.

A line indicates lead (Pb)-free package or lead (Pb)-free finish.





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