

TOSHIBA Transistor Silicon NPN Triple Diffused Type

# 2SC5466

Dynamic Focus Applications  
 High Voltage Switching Applications  
 High Voltage Amplifier Applications

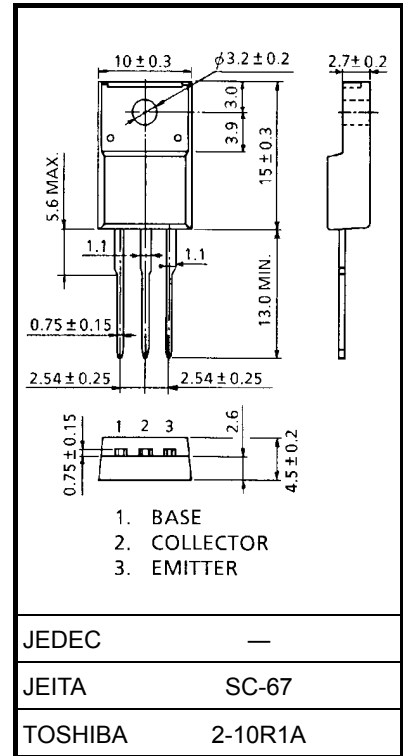
- High voltage:  $V_{CEO} = 800\text{ V}$

### 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).

Unit: mm

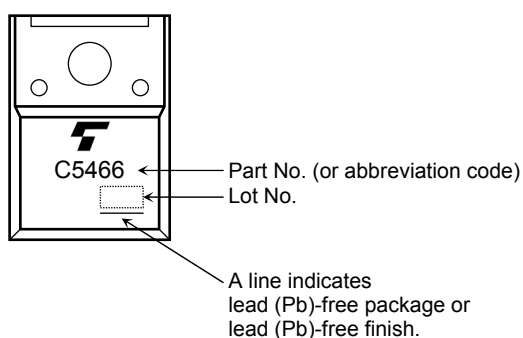


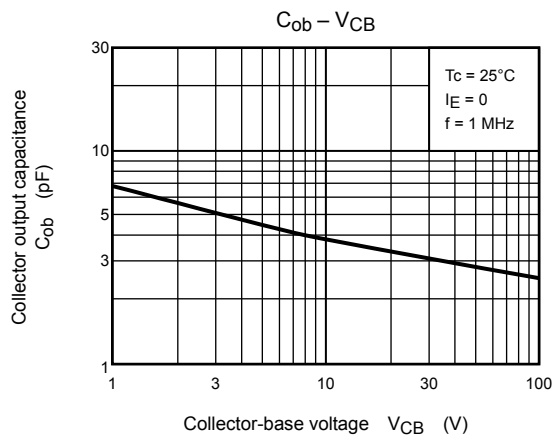
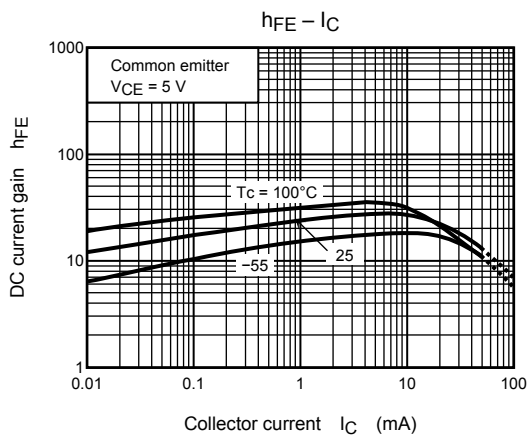
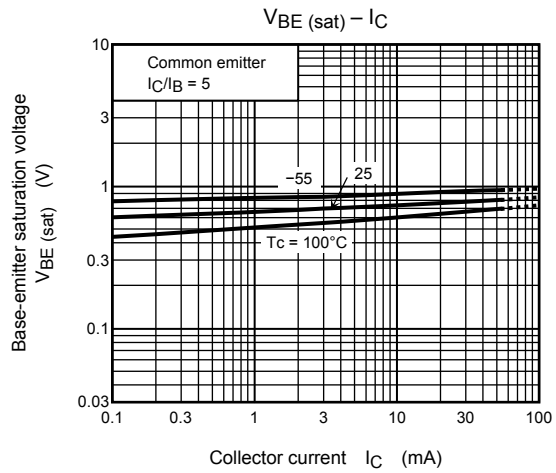
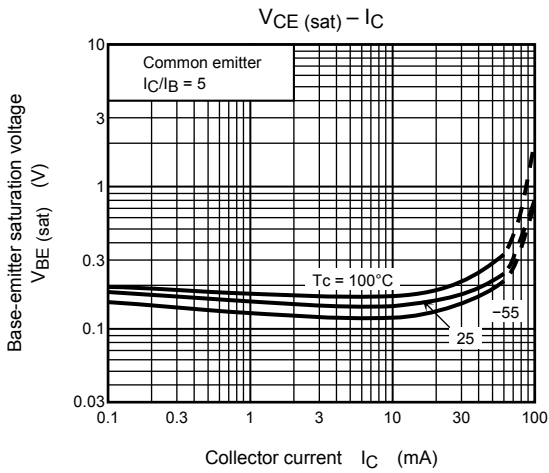
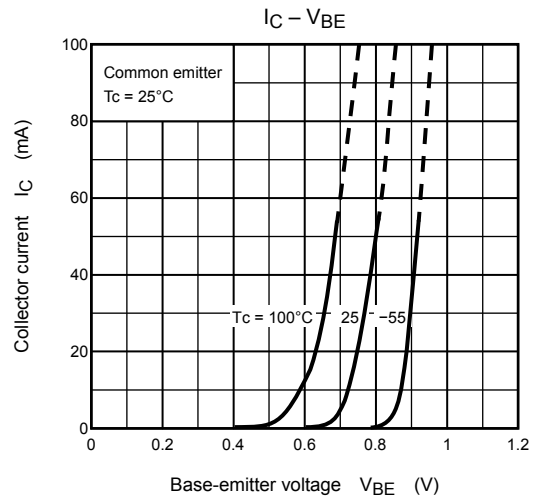
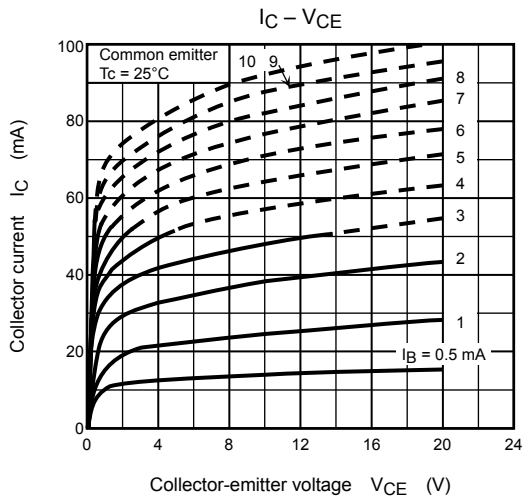
Weight: 1.7 g (typ.)

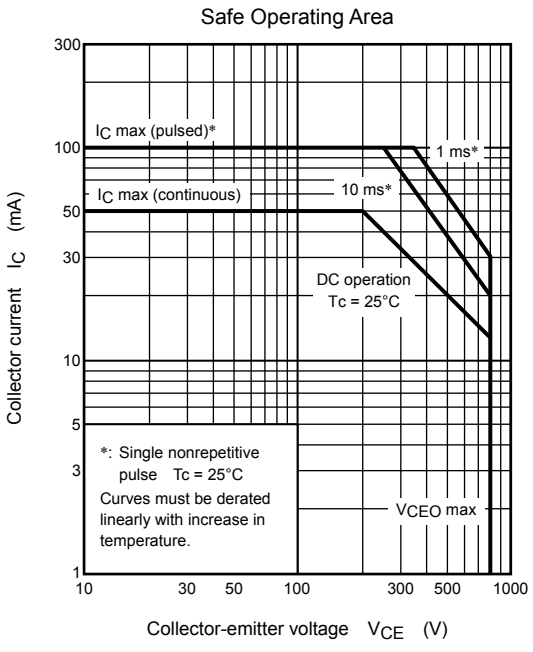
## Electrical Characteristics (Tc = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	$I_{CBO}$	$V_{CB} = 640 \text{ V}, I_E = 0$	—	—	1.0	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 5 \text{ V}, I_C = 0$	—	—	10	$\mu\text{A}$
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







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20070701-EN

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