

查询"2SC5459_07"供应商 TOSHIBA Transistor Silicon NPN Triple Diffused Type

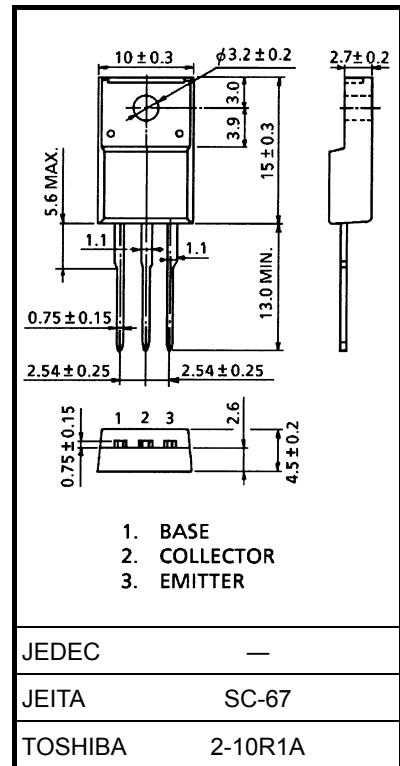
2SC5459

Switching Regulator Applications

High-Voltage Switching Applications

DC-DC Converter Applications

Unit: mm

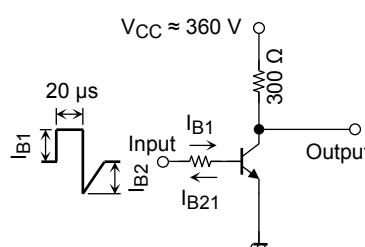


Weight: 1.7 g (typ.)

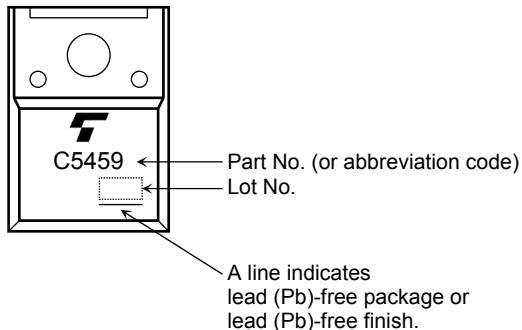
Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.)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

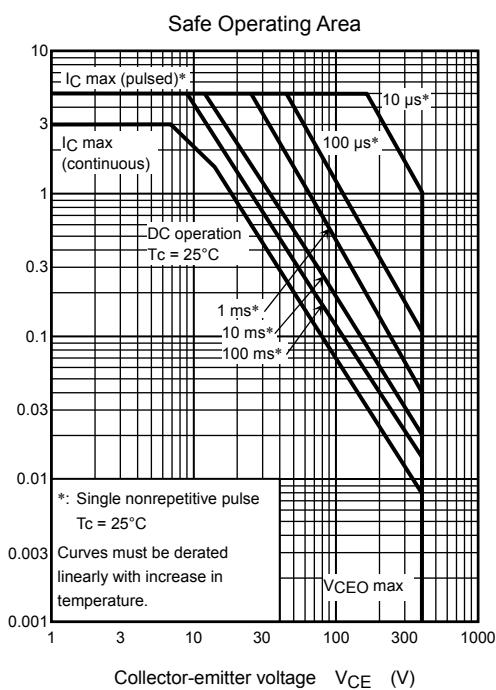
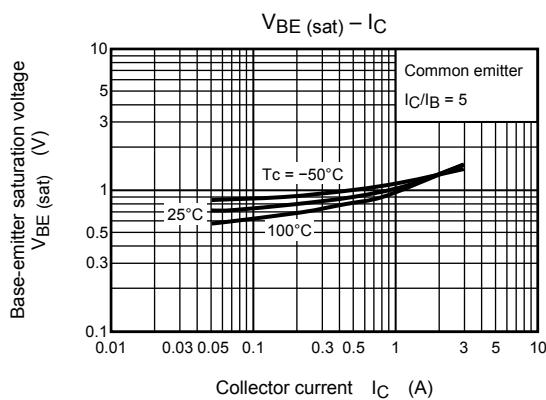
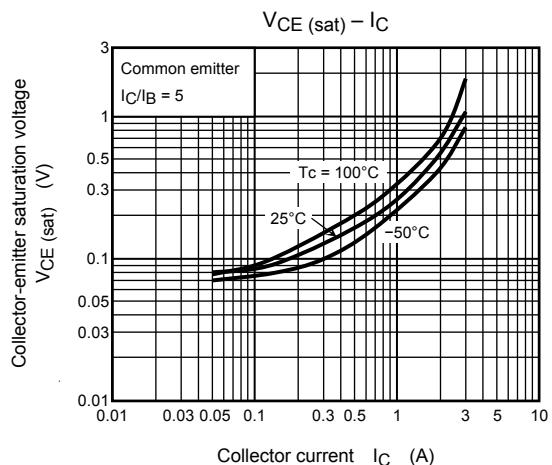
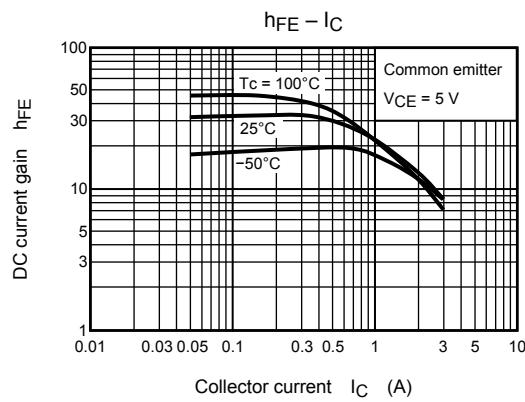
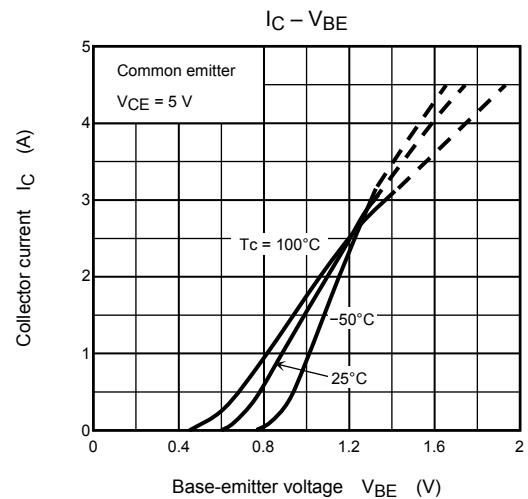
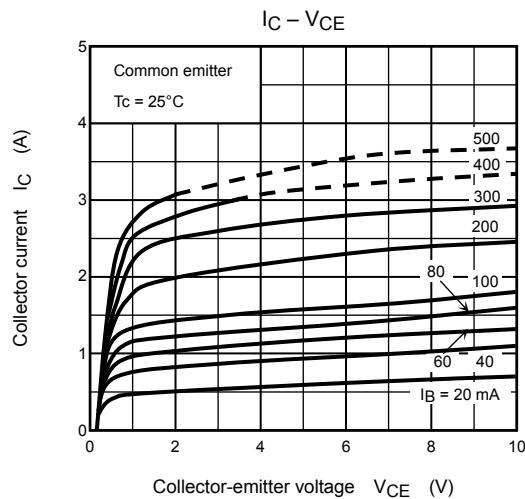
查询"2SC5459-07"供应商 Electrical Characteristics (Tc = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit	
Collector cut-off current	I_{CBO}	$V_{CB} = 480 \text{ V}, I_E = 0$	—	—	100	μA	
Emitter cut-off current	I_{EBO}	$V_{EB} = 7 \text{ V}, I_C = 0$	—	—	10	μA	
Collector-base breakdown voltage	$V_{(\text{BR})\text{CBO}}$	$I_C = 1 \text{ mA}, I_E = 0$	600	—	—	V	
Collector-emitter breakdown voltage	$V_{(\text{BR})\text{CEO}}$	$I_C = 10 \text{ mA}, I_B = 0$	400	—	—	V	
DC current gain	$h_{FE} (1)$	$V_{CE} = 5 \text{ V}, I_C = 1 \text{ mA}$	13	—	—		
	$h_{FE} (2)$	$V_{CE} = 5 \text{ V}, I_C = 0.3 \text{ A}$	20	—	—		
Collector-emitter saturation voltage	$V_{CE} (\text{sat})$	$I_C = 1.2 \text{ A}, I_B = 0.15 \text{ A}$	—	—	1.0	V	
Base-emitter saturation voltage	$V_{BE} (\text{sat})$	$I_C = 1.2 \text{ A}, I_B = 0.15 \text{ A}$	—	—	1.3	V	
Switching time	Turn-on time	t_r	 $V_{CC} \approx 360 \text{ V}$ $20 \mu\text{s}$ I_{B1} I_{B2} I_{B21} t_r $I_{B1} = 0.15 \text{ A}, I_{B2} = -0.3 \text{ A},$ $\text{duty cycle} \leq 1\%$	—	—	0.5	μs
	Storage time	t_{stg}		—	—	2.0	
	Fall time	t_f		—	—	0.3	

Marking



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