TOSHIBA Transistor Silicon NPN Epitaxial Planar Type

2SC5765

MEDIUM POWER AMPLIFIER APPLICATIONS STOROBO FLASH APPLICATIONS

• Low Saturation Voltage: $V_{CE (sat) (1)} = 0.27 \text{ V (max.)}$ (IC = 3 A/IB = 60 mA)

Maximum Ratings (Ta = 25°C)

Characteristic		Symbol	Rating	Unit	
Collector-Base voltage		V_{CBO}	15	V	
Collector-Emitter voltage		V _{CEO}	10	V	
Emitter-Base voltage		V _{EBO}	7	V	
Collector current	DC	I _C	5	Α	
	Pulsed	I _{CP}	9		
Collector power dissipation		P _C (Note1)	550	mW	
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	

Note 1: When a device is mounted on a glass epoxy board $(35 \text{ mm} \times 30 \text{ mm} \times 1 \text{mm})$

0.55MAX. 0.55MAX. 0.4 1.27,1.27 1. EMITTER 2. COLLECTOR 3. BASE MINI JEDEC —

2-4E1A

Weight: 0.13 g

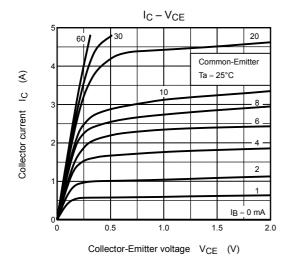
JEITA

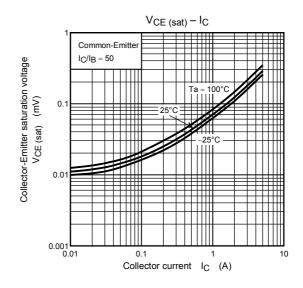
TOSHIBA

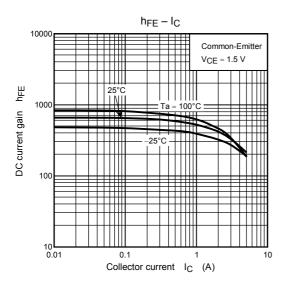
Electrical Characteristics (Ta = 25°C)

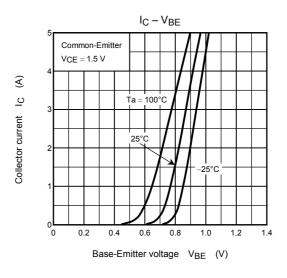
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 15 V, I _E = 0	_	_	0.1	μА
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μΑ
Collector-Emitter breakdown voltage	V _{(BR)CEO}	I _C = 1 mA, I _B = 0	10	_	_	V
DC current gain	h _{FE(1)} (Note2)	$V_{CE} = 1.5 \text{ V}, I_{C} = 0.5 \text{ A}$	450	_	700	
	h _{FE(2)} (Note2)	V _{CE} = 1.5 V, I _C = 2 A	320	_		
	h _{FE(3)} (Note2)	V _{CE} = 1.5 V, I _C = 5 A	170	_	_	
Collector-Emitter saturation voltage	V _{CE (sat)} (Note2)	I _C = 3 A, I _B = 60 mA		_	0.27	V
Collector-Output Capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	25	_	pF

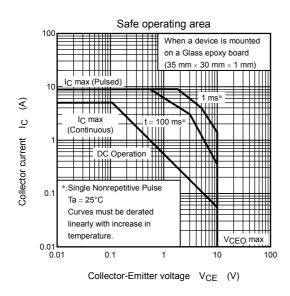
Note 2: Pulse test

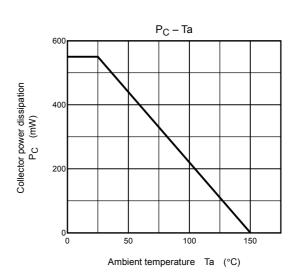




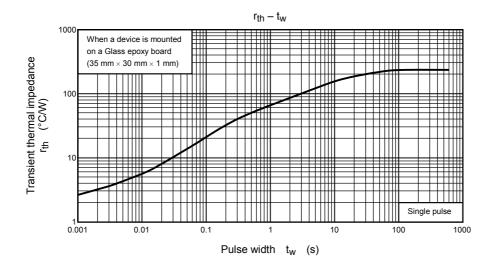








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