TOSHIBA Transistor Silicon NPN Triple Diffused Type

2SC5550

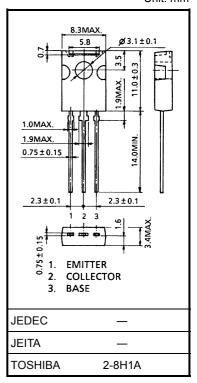
High-Speed Switching Application for Inverter Lighting System

- Suitable for RCC circuit (guaranteed small current hFE) : hFE = 13 (min) (I_C = 1 mA)
- High speed: $t_r = 0.5 \mu s$ (max), $t_f = 0.3 \mu s$ (max) (IC = 0.24 A)
- High breakdown voltage: VCEO = 400 V

Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V_{CBO}	400	V	
Collector-emitter voltage		V _{CEO}	400	V	
Emitter-base voltage		V _{EBO}	7	٧	
Collector current	DC	Ic	1	А	
	Pulse	I _{CP}	2		
Base current		Ι _Β	0.5	А	
Collector power dissipation	Ta = 25°C	P _C	1.5	W	
	Tc = 25°C		10		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	

Unit: mm



Weight: 0.82 g (typ.)

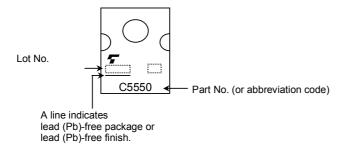


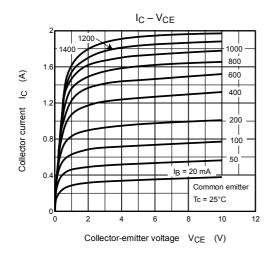
Electrical Characteristics (Tc = 25°C)

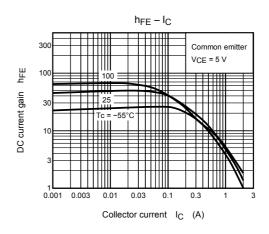
Chara	acteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current		I _{CBO}	V _{CB} = 320 V, I _E = 0	_	_	100	μA
Emitter cut-off current		I _{EBO}	V _{EB} = 7 V, I _C = 0	_	_	100	μA
Collector-base breakdown voltage		V (BR) CBO	I _C = 1 mA, I _E = 0	400	_	_	٧
Collector-emitter breakdown voltage		V (BR) CEO	I _C = 10 mA, I _B = 0	400	_	_	V
DC current gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 1 mA	13	_	_	
		h _{FE (2)}	V _{CE} = 5 V, I _C = 0.04 A	20	_	65	
Collector-emitter saturation voltage		V _{CE (sat)}	I _C = 0.2 A, I _B = 25 mA	_	_	1.0	V
Base-emitter saturation voltage		V _{BE} (sat)	I _C = 0.2 A, I _B = 25 mA	_	_	1.3	V
Switching time	Rise time	t _r	V _{CC} ≈200 V	- C V C C C C C C C C C C C C C C C C C		0.5	
	Storage time	t _{stg}	$ \begin{array}{c c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & $	_	_	5.0	μs
	Fall time	t _f	I _{B1} = 0.03 A, I _{B2} = −0.06 A, Duty cycle ≤ 1%			0.3	

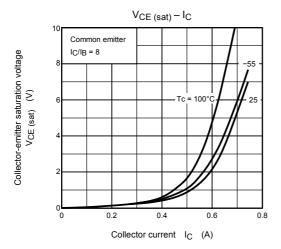
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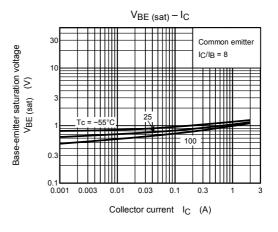
Marking

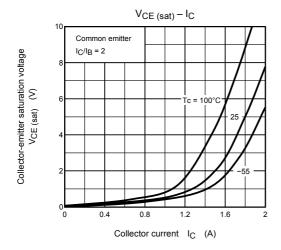


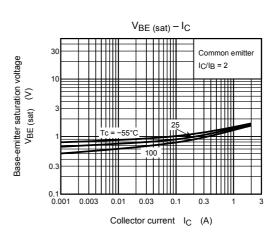




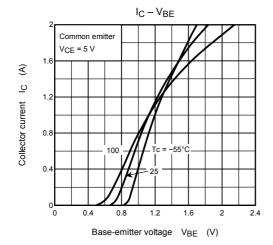


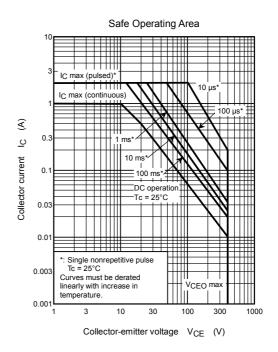






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Handbook" etc..

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