TOSHIBA Transistor Silicon NPN Triple Diffused Type

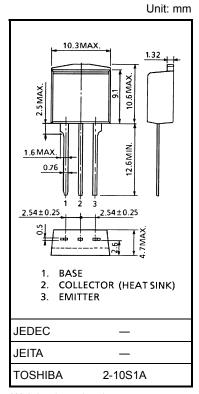
2SC5361

High-Voltage Switching Applications Switching Regulator Applications DC-DC Converter Applications

- Excellent switching times: $t_f = 0.5 \mu s \text{ (max) (IC} = 1.2 \text{ A)}$
- High breakdown voltage: VCEO = 800 V
- High DC current gain: $h_{FE} = 15$ (min) ($I_{C} = 0.15$ A)

Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V _{CBO}	900	V	
Collector-emitter voltage		V _{CEO}	800	V	
Emitter-base voltage		V _{EBO}	7	V	
Collector current	DC	IC	3	Α	
	Pulse	I _{CP}	5		
Base current		ΙΒ	1	Α	
Collector power dissipation	Ta = 25°C	Pc	1.5	W	
	Tc = 25°C	FC	40		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	

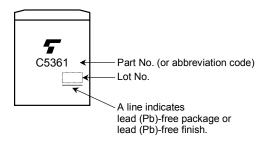


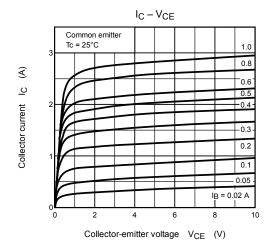
Weight: 1.5 g (typ.)

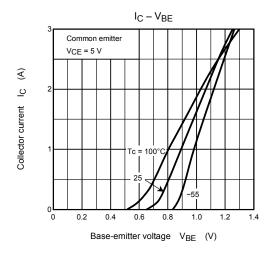
Electrical Characteristics (Tc = 25°C)

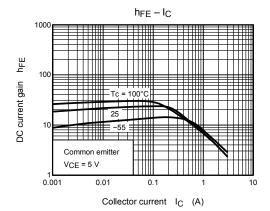
Characteristics		Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current		I _{CBO}	V _{CB} = 720 V, I _E = 0	_	_	100	μΑ
Emitter cut-off current		I _{EBO}	V _{EB} = 7 V, I _C = 0	_	_	10	mA
Collector-base breakdown voltage		V (BR) CBO	I _C = 1 mA, I _E = 0	900	_	_	V
Collector-emitter breakdown voltage		V (BR) CEO	I _C = 10 mA, I _B = 0	800	_	_	V
DC current gain		h _{FE (1)}	V _{CE} = 5 V, I _C = 1 mA		_	_	
		h _{FE (2)}	V _{CE} = 5 V, I _C = 0.15 A	15	_	_	
Collector-emitter saturation voltage		V _{CE (sat)}	I _C = 1.2 A, I _B = 0.24 A	_	_	1.0	V
Base-emitter saturation voltage		V _{BE (sat)}	I _C = 1.2 A, I _B = 0.24 A	_	_	1.3	V
Switching time	Rise time	t _r	$V_{CC} \approx 360 \text{ V}$	_	_	0.7	
	Storage time	t _{stg}		ı	_	4.0	μs
	Fall time	t _f		ı	_	0.5	

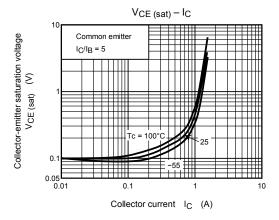
Marking

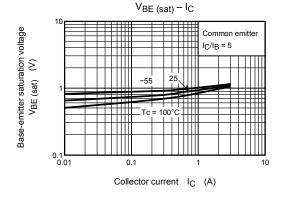


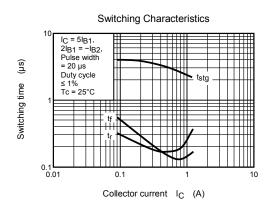


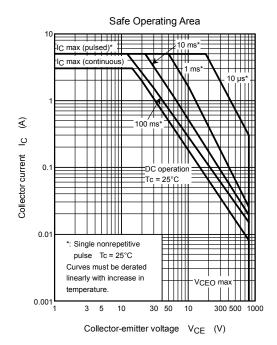


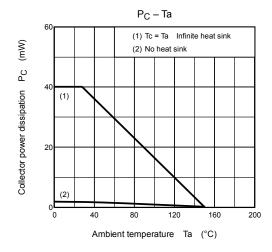












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