TOSHIBA Transistor Silicon NPN Triple Diffused Type (PCT process)

2SC2880

High Voltage Switching Applications

• High voltage: VCEO = 150 V

• High transition frequency: $f_T = 120 \text{ MHz}$

• Small flat package

• $P_C = 1.0$ to 2.0 W (mounted on ceramic substrate)

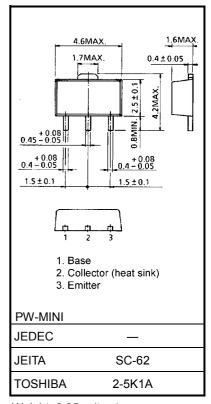
• Complementary to 2SA1200

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V_{CBO}	200	V	
Collector-emitter voltage	V _{CEO}	150	V	
Emitter-base voltage	V _{EBO}	5	V	
Collector current	Ic	50	mA	
Base current	Ι _Β	10	mA	
Collector power dissipation	P _C	500	mW	
	P _C (Note 1)	800		
Junction temperature	Tj	150	°C	
Storage temperature range	T _{stg}	−55 to 150	°C	

Note 1: Mounted on ceramic substrate (250 mm² × 0.8 t)

Unit: mm



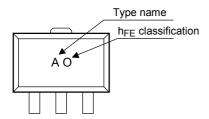
Weight: 0.05 g (typ.)

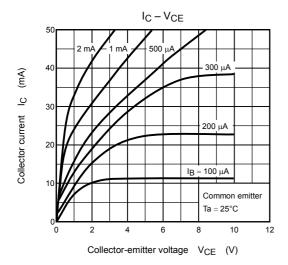
Electrical Characteristics (Ta = 25°C)

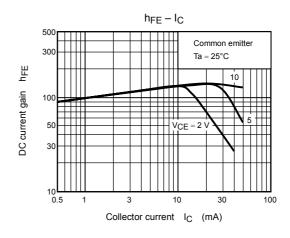
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = 200 V, I _E = 0	_	_	0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	0.1	μΑ
DC current gain	h _{FE} (Note 2)	V _{CE} = 5 V, I _C = 10 mA	70	-	240	_
Collector-emitter saturation voltage	V _{CE} (sat)	I _C = 10 mA, I _B = 1 mA	_	_	0.5	V
Base-emitter voltage	V _{BE}	V _{CE} = 5 V, I _C = 30 mA	_	_	1	V
Transition frequency	f _T	V _{CE} = 30 V, I _C = 10 mA	_	120	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	3.5	5.0	pF

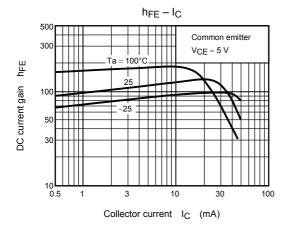
Note 2: hFE classification O: 70 to 140, Y: 120 to 240

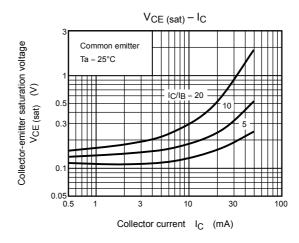
Marking

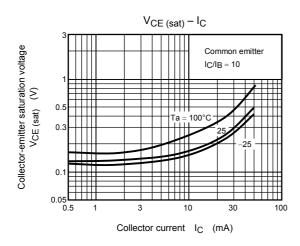


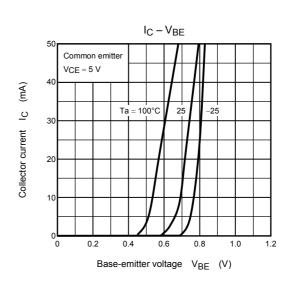


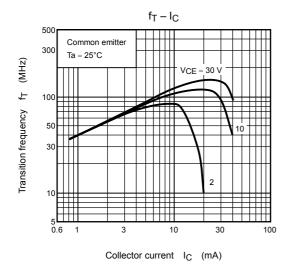


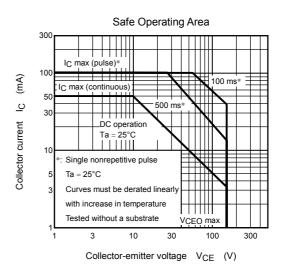


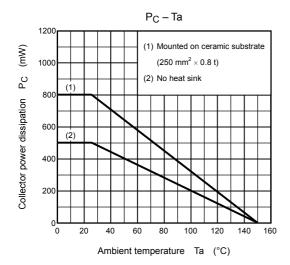












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