TOSHIBA Transistor Silicon PNP Triple Diffused Type

2SA1923

High Voltage Switching Applications

Unit: mm

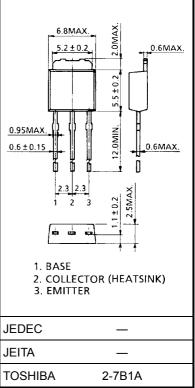
• High voltage: $V_{CEO} = -400 \text{ V}$

• Low saturation voltage: $V_{CE (sat)} = -1 V (max)$

 $(I_C = -100 \text{ mA}, I_B = -10 \text{ mA})$

Maximum Ratings (Ta = 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	V	
Collector current	DC	IC	-0.5	Α	
	Pulse	I _{CP}	-1	_ ^	
Base current		Ι _Β	-0.25	Α	
Collector power dissipation	Ta = 25°C	D.	1	W	
	Tc = 25°C	PC	10		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	−55 to 150	°C	



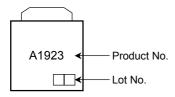
Weight: 0.36 g (typ.)

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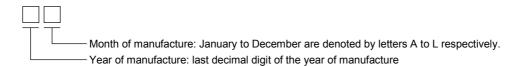
Electrical Characteristics (Ta = 25°C)

Characteristics		Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off of	urrent	I _{CBO}	V _{CB} = -400 V, I _E = 0	_	_	-10	μA
Emitter cut-off cu	rent	I _{EBO}	V _{EB} = -7 V, I _C = 0	1	_	-1	μA
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 = -20 mA	140	_	450	
		h _{FE (2)}	V _{CE} = -5 V, I _C = -100 mA	140	_	400	
Collector-emitter	saturation voltage	ration voltage $V_{CE (sat)}$ $I_{C} = -100 \text{ mA}, I_{B} = -10 \text{ mA}$		-	-0.4	-1.0	V
Base-emitter saturation voltage		V _{BE (sat)}	I _C = -100 mA, I _B = -10 mA	-	-0.76	-0.9	V
Transition frequency		f _T	V _{CE} = -5 V, I _C = -50 mA	-	35	_	MHz
Collector output capacitance		C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	-	18	_	pF
Switching time Stor	Turn-on time	t _{on}	OUTPUT 4 OUTPUT	_	0.2	_	
	Storage time	t _{stg}	B2 B2 S N N N N N N N N N	_	2.3	_	μs
	Fall time	t _f	I _{B1} = −10 mA, I _{B2} = 20 mA, DUTY CYCLE ≤ 1%	_	0.2	_	

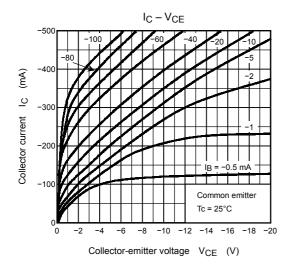
Marking

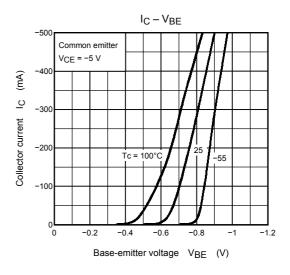


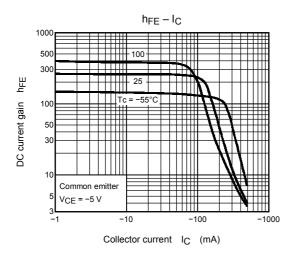
Explanation of Lot No.

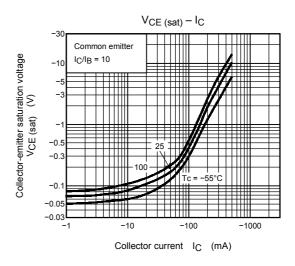


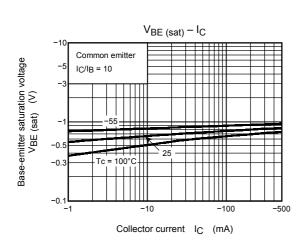
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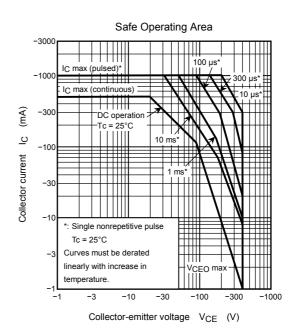












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