TOSHIBA Transistor Silicon NPN Epitaxial Type (PCT process)

2SC3074

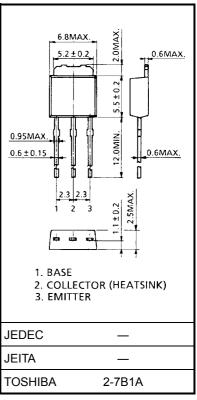
High Current Switching Applications

- Low collector saturation voltage: $V_{CE (sat)} = 0.4 \text{ V (max) (IC} = 3 \text{ A)}$
- High speed switching time: $t_{stg} = 1.0 \mu s$ (typ)
- Complementary to 2SA1244

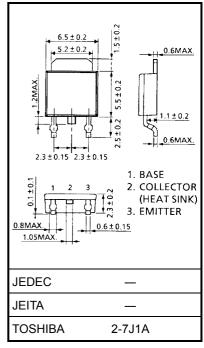
Maximum Ratings (Ta = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V _{CBO}	60	V	
Collector-emitter voltage		V _{CEO}	50	V	
Emitter-base voltage		V _{EBO}	5	V	
Collector current		I _C	5	Α	
Base current		I _B	1	Α	
Collector power	Ta = 25°C	Pc	1.0	W	
dissipation	Tc = 25°C	FC	20	VV	
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	

Unit: mm



Weight: 0.36 g (typ.)



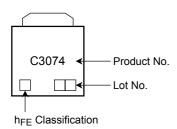
Weight: 0.36 g (typ.)

Electrical Characteristics (Ta = 25°C)

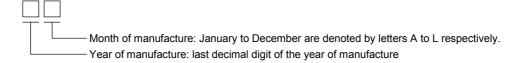
Chara	acteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off of	current	I _{CBO}	V _{CB} = 50 V, I _E = 0	_	_	1	μA
Emitter cut-off cu	rrent	I _{EBO}	V _{EB} = 5 V, I _C = 0	_	_	1	μΑ
Collector-emitter	breakdown voltage	V (BR) CEO	I _C = 10 mA, I _B = 0	50	_	_	V
DC current gain		h _{FE (1)} (Note)	V _{CE} = 1 V, I _C = 1 A	70	_	240	
		h _{FE (2)}	V _{CE} = 1 V, I _C = 3 A	30	_	_	
Collector-emitter	saturation voltage	V _{CE (sat)}	I _C = 3 A, I _B = 0.15 A	_	0.2	0.4	V
Base-emitter satu	ıration voltage	V _{BE (sat)}	I _C = 3 A, I _B = 0.15 A	_	0.9	1.2	V
Transition freque	ncy	f _T	V _{CE} = 4 V, I _C = 1 A	_	120	_	MHz
Collector output capacitance		C _{ob}	V _{CB} = 10 V, I _E = 0, f = 1 MHz	_	80	_	pF
	Turn-on time	t _{on}	20 μs l _{B1} ΟυΤΡυΤ	_	0.1	_	
	Storage time	t _{stg}	INPUTO B2 IB2 VCC = 30 V	_	1.0	_	μs
	Fall time	t _f	I _{B1} = -I _{B2} = 0.15 A, DUTY CYCLE ≤ 1%	_	0.1	_	

Note: hFE (1) classification O: 70 to 140, Y: 120 to 240

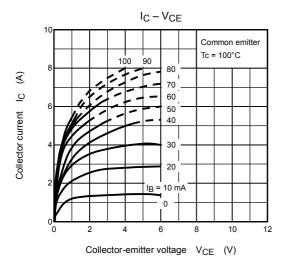
Marking

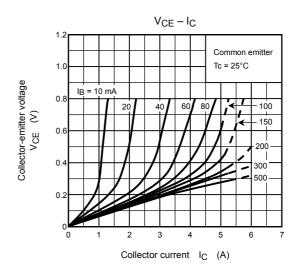


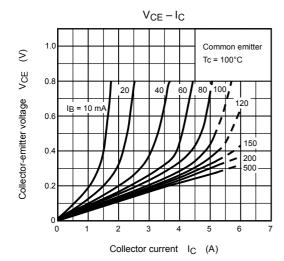
Explanation of Lot No.

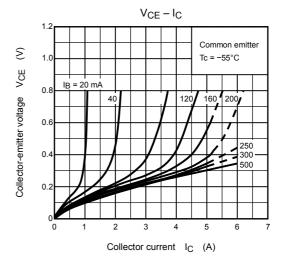


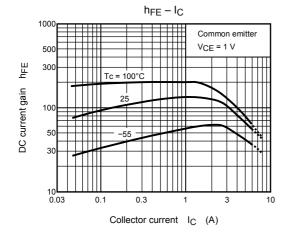
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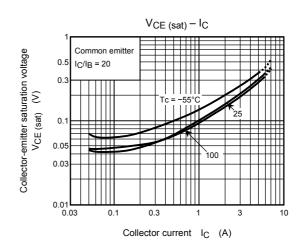




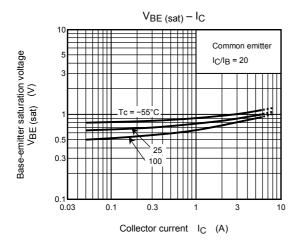


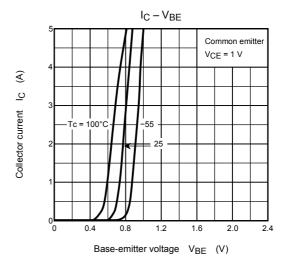


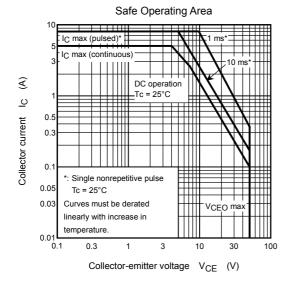


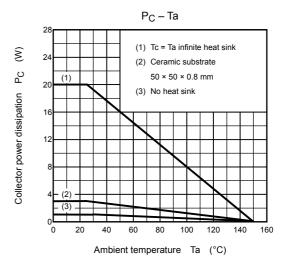


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