TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1244

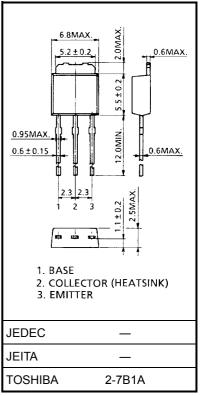
High Current Switching Applications

Unit: mm

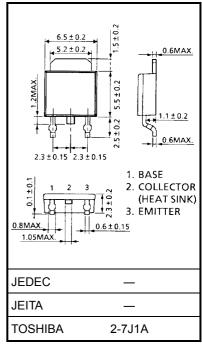
- Low collector saturation voltage: $V_{CE (sat)} = -0.4 \text{ V (max) (IC} = -3 \text{ A)}$
- High speed switching time: $t_{stg} = 1.0 \mu s$ (typ.)
- Complementary to 2SC3074

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		IC	-5	Α	
Base current		Ι _Β	-1	Α	
Collector power dissipation	Ta = 25°C	Pc	1.0	W	
	Tc = 25°C	FC	20		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55 to 150	°C	



Weight: 0.36 g (typ.)



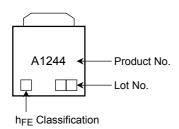
Weight: 0.36 g (typ.)

Electrical Characteristics (Ta = 25°C)

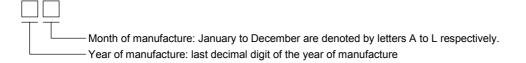
Characteristics		Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off c	urrent	I _{CBO}	V _{CB} = -50 V, I _E = 0		_	-1	μΑ
Emitter cut-off cur	rent	I _{EBO}	V _{EB} = -5 V, I _C = 0	-	_	-1	μΑ
Collector-emitter	oreakdown voltage	V (BR) CEO	$I_C = -10 \text{ mA}, I_B = 0$	-50	_	_	V
DC current gain		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)}	$I_C = -3 \text{ A}, I_B = -0.15 \text{ A}$	_	-0.2	-0.4	V
Base-emitter satu	ration voltage	V _{BE (sat)}	$I_C = -3 \text{ A}, I_B = -0.15 \text{ A}$	_	-0.9	-1.2	V
Transition frequency		f _T	V _{CE} = -4 V, I _C = -1 A	_	60	_	MHz
Collector output capacitance		C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_	170	_	pF
Switching time	Turn-on time	t _{on}	OUTPUT 20 μs INPUT →	_	0.1	_	
	Storage time	t _{stg}	20 μs INPUT B2 CC CC CC S S S S S S S S S S S S S S S	ı	1.0	_	μs
	Fall time	t _f	$-I_{B1} = I_{B2} = 0.15 \text{ A},$ DUTY CYCLE $\leq 1\%$	_	0.1	_	

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

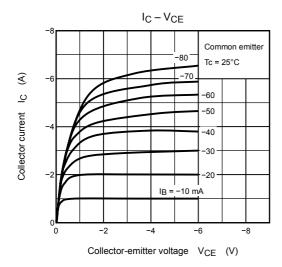
Marking

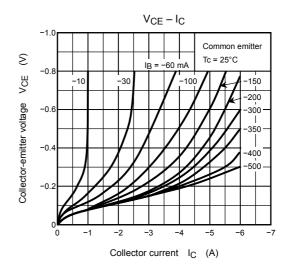


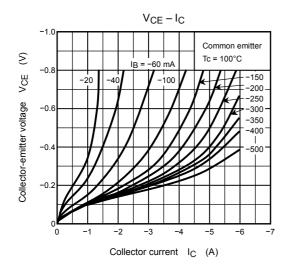
Explanation of Lot No.

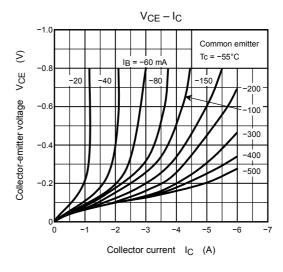


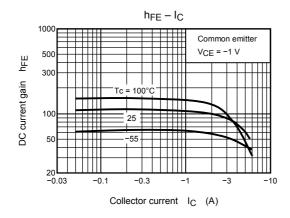
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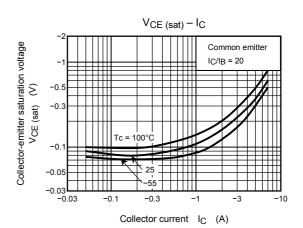




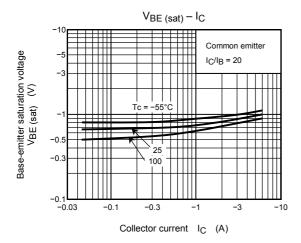


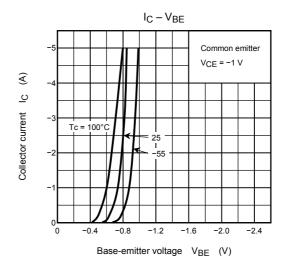


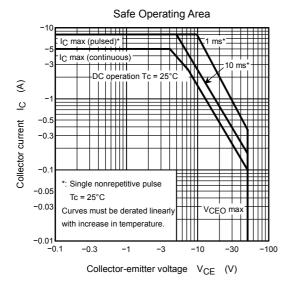


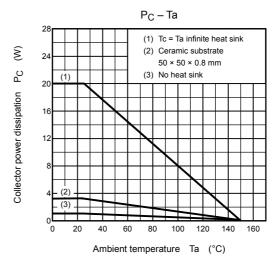


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