TOSHIBA Transistor Silicon PNP Triple Diffused Type

2SB1015A

1

Audio Frequency Power Amplifier Applications

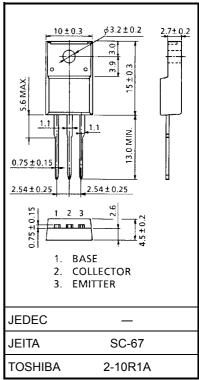
• Low collector saturation voltage: $V_{CE (sat)} = -1.7 \text{ V (max)}$ ($I_{C} = -3 \text{ A}, I_{B} = -0.3 \text{ A}$)

• Collector power dissipation: $PC = 25 \text{ W} \text{ (Tc} = 25^{\circ}\text{C)}$

Maximum Ratings (Ta = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V _{CBO}	-60	V	
Collector-emitter voltage		V _{CEO}	-60	V	
Emitter-base voltage		V _{EBO}	-7	V	
Collector current		I _C	-3	Α	
Base current		Ι _Β	-0.5	Α	
Collector power dissipation	Ta = 25°C	Pc	2.0	W	
	Tc = 25°C	- FC	25		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	-55~150	°C	

Unit: mm



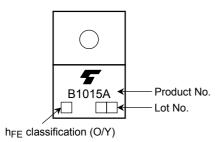
Weight: 1.7 g (typ.)

Electrical Characteristics (Ta = 25°C)

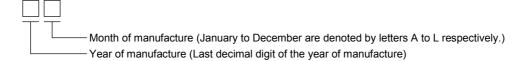
Charac	cteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off cu	urrent	I _{CBO}	$V_{CB} = -60 \text{ V}, I_{E} = 0$	_	_	-100	μΑ
Emitter cut-off curr	rent	I _{EBO}	$V_{EB} = -7 \text{ V, } I_C = 0$	_	_	-100	μΑ
Collector-emitter b	reakdown voltage	V (BR) CEO	$I_C = -50 \text{ mA}, I_B = 0$	-60	_	_	V
DC current gain		h _{FE (1)} (Note)	V _{CE} = -5 V, I _C = -0.5 A	60	_	200	
		h _{FE (2)}	$V_{CE} = -5 \text{ V}, I_{C} = -3 \text{ A}$	20	_	_	
Collector-emitter s	ctor-emitter saturation voltage $V_{CE (sat)}$ $I_{C} = -3 \text{ A}, I_{B} = -0.3 \text{ A}$		_	-0.5	-1.7	V	
Base-emitter volta	ge	V _{BE}	$V_{CE} = -5 \text{ A}, I_{C} = -0.5 \text{ A}$	_	-0.7	-1.0	V
Transition frequen	су	f _T	$V_{CE} = -5 \text{ V}, I_{C} = -0.5 \text{ A}$	_	9	_	MHz
Collector output capacitance		C _{ob}	$V_{CB} = -10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	_	150	_	pF
Switching time Sto	Turn-on time	t _{on}	Output B_1 B_2 B_2 B_2 B_3 B_4 B_4 B_5 B_6 B_6 B_6 B_7 B_8	_	0.4	_	
	Storage time	t _{stg}			1.7	_	μs
	Fall time	t _f		_	0.5	_	

Note: $h_{FE(1)}$ classification O: 60~120, Y: 100~200

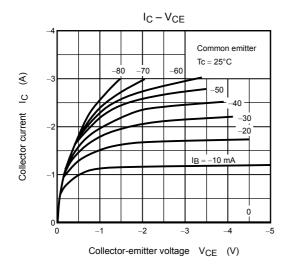
Marking

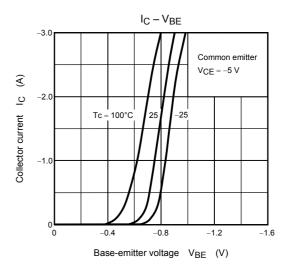


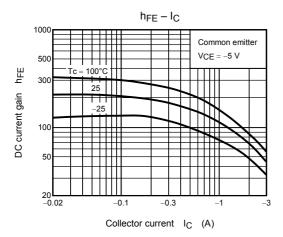
Explanation of Lot No.

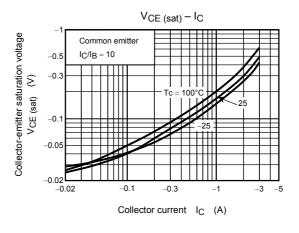


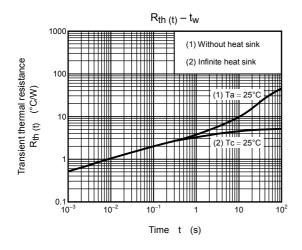
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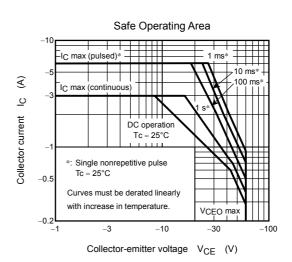












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