TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1618

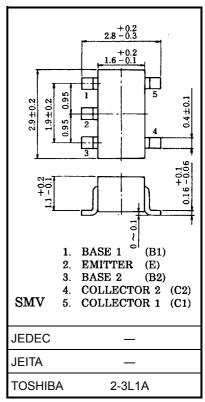
Audio Frequency General Purpose Amplifier Applications

Unit: mm

- Small package (dual type)
- High voltage and high current: $V_{\rm CEO} = -50$ V, $I_{\rm C} = -150$ mA (max)
- High hFE: hFE = $120 \sim 400$
- Excellent hFE linearity: hFE (IC = -0.1 mA)/ hFE (IC = -2 mA) = 0.95 (typ.)
- Complementary to 2SC4207

Maximum Ratings (Ta = 25°C) (Q1, Q2 common)

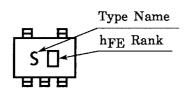
Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V_{CBO}	-50	V	
Collector-emitter voltage	V _{CEO}	-50	V	
Emitter-base voltage	V _{EBO}	-5	V	
Collector current	IC	-150	mA	
Base current	ΙΒ	-30	mA	
Collector power dissipation	P _C (Note 1)	300	mW	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55~125	°C	



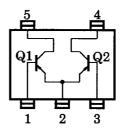
Weight: 0.014 g (typ.)

Note 1: Total rating

Marking



Equivalent Circuit (top view)



Electrical Characteristics (Ta = 25°C) (Q1, Q2 common)

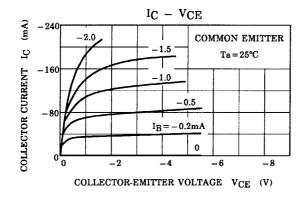
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -50 \text{ V}, I_{E} = 0$	_	_	-0.1	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$			-0.1	μΑ
DC current gain	h _{FE} (Note 2)	$V_{CE} = -6 \text{ V}, I_{C} = -2 \text{ mA}$	120		400	
Collector-emitter saturation voltage	V _{CE (sat)}	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$	_	-0.1	-0.3	٧
Transition frequency	f _T	$V_{CE} = -10 \text{ V}, I_{C} = -1 \text{ mA}$	80	_	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$	_	4	7	pF

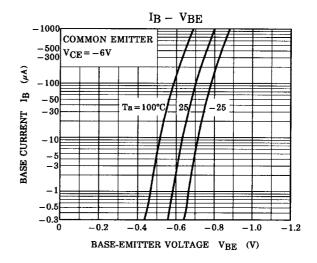
Note 2: hFE classification Y (Y): 120~240, GR (G): 200~400

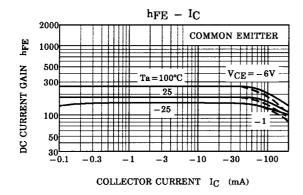
() marking symbol

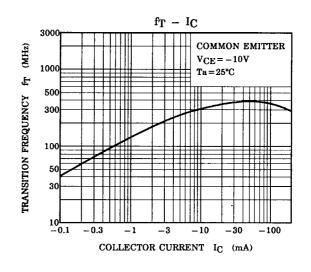
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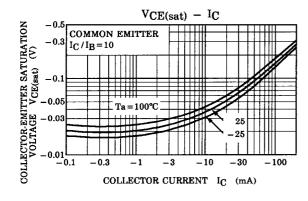
(Q1, Q2 common)

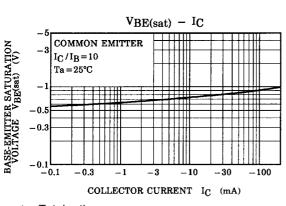


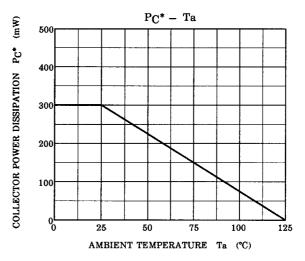












*: Total rating

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