Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1620

Audio Frequency Amplifier Applications

• Complementary to 2SC4209

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-80	V
Collector-emitter voltage	V _{CEO}	-80	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	Ic	-300	mA
Base current	Ι _Β	-60	mA
Collector power dissipation	PC	200	mW
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C

1. BASE 2. EMITTER 3. COLLECTOR JEDEC TO-236MOD JEITA SC-59 TOSHIBA 2-3F1A

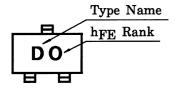
Weight: 0.012 g (typ.)

Electrical Characteristics (Ta = 25°C)

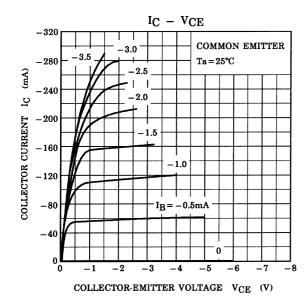
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB} = -50 \text{ V}, I_{E} = 0$	_	_	-0.1	μА
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$	_	_	-0.1	μА
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -5 \text{ mA}, I_B = 0$	-80	_	_	V
DC current gain	h _{FE (1)} (Note)	$V_{CE} = -2 \text{ V}, I_{C} = -50 \text{ mA}$	70	_	240	
	h _{FE (2)}	$V_{CE} = -2 \text{ V}, I_{C} = -200 \text{ mA}$	40	_	_	
Collector-emitter saturation voltage	V _{CE (sat)}	$I_C = -200 \text{ mA}, I_B = -20 \text{ mA}$	_	_	-0.4	V
Base-emitter voltage	V _{BE}	$V_{CE} = -2 \text{ V}, I_{C} = -5 \text{ mA}$	-0.55	_	-0.8	V
Transition frequency	f _T	V _{CE} = -10 V, I _C = -10 mA	70	100	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$	_	14	_	pF

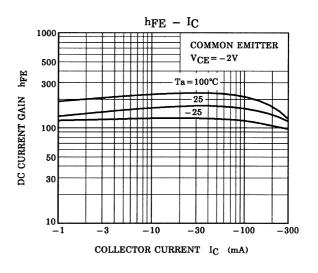
Note: hFE classification, O: 70~140, Y: 120~240

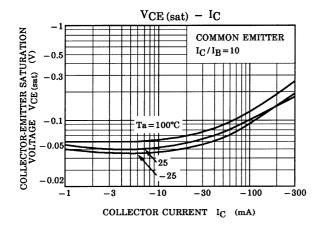
Marking

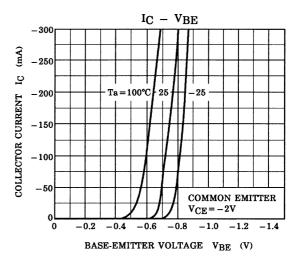


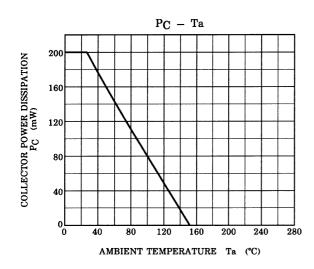
2003-03-24











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