TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

2SA1162

Audio Frequency General Purpose Amplifier Applications

Unit: mm

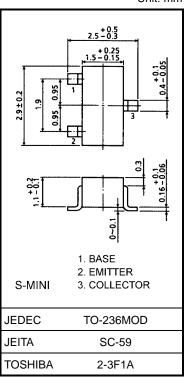
- High voltage and high current: V_{CEO} = -50 V, I_C = -150 mA (max)
- Excellent hFE linearity: $hFE (I_C = -0.1 \text{ mA})/hFE (I_C = -2 \text{ mA})$

= 0.95 (typ.)

- High hFE: hFE = 70~400
- Low noise: NF = 1dB (typ.), 10dB (max)
- Complementary to 2SC2712
- Small package

Maximum Ratings (Ta = 25°C)

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	Ι _C	-150	mA	
Base current	Ι _Β	-30	mA	
Collector power dissipation	P _C	150	mW	
Junction temperature	Тj	125	°C	
Storage temperature range	T _{stg}	-55~125	°C	



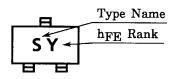
Weight: 0.012 g (typ.)

Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	$V_{CB}=-50~V,~I_{E}=0$	_	_	-0.1	μA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, \text{ I}_{C} = 0$	_	_	-0.1	μA
DC current gain	h _{FE} (Note)	$V_{CE} = -6 \text{ V}, \text{ I}_{C} = -2 \text{ mA}$	70	_	400	
Collector-emitter saturation voltage	V _{CE (sat)}	$I_{C} = -100 \text{ mA}, I_{B} = -10 \text{ mA}$	_	-0.1	-0.3	V
Transition frequency	f _T	$V_{CE} = -10 \text{ V}, \ I_C = -1 \text{ mA}$	80	_	_	MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 V$, $I_E = 0$, $f = 1 MHz$	_	4	7	pF
Noise figure	NF	V_{CE} = -6 V, I_{C} = -0.1 mA, f = 1 kHz, Rg = 10 k\Omega,		1.0	10	dB

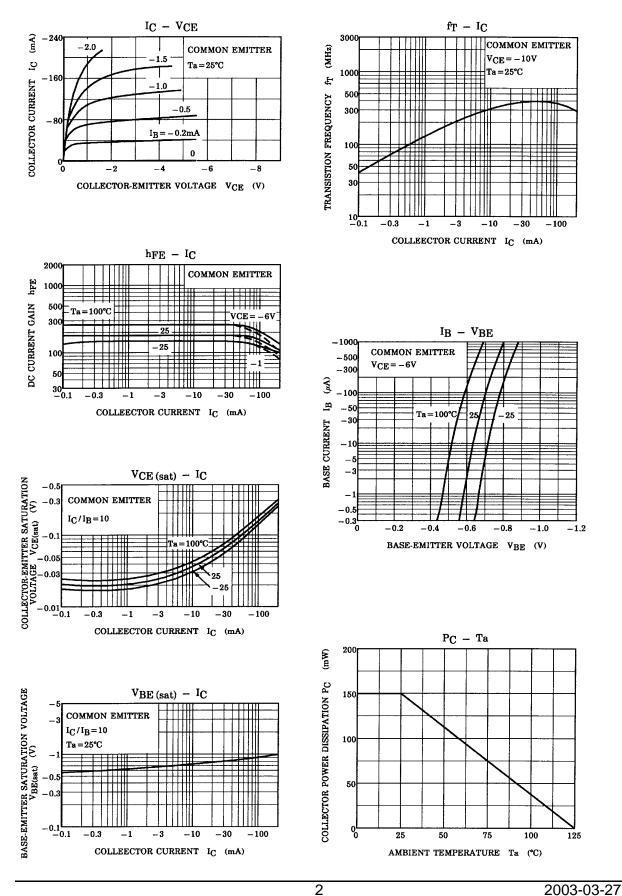
Note: hFE classification O (O): 70~140, Y (Y): 120~240, GR (G): 200~400, () marking symbol

Marking



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