TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

2SA1358

Audio Frequency Power Amplifier Applications

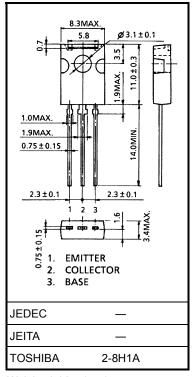
Unit: mm

- Complementary to 2SC3421
- Suitable for driver of 60 to 80 watts
- High breakdown voltage

Absolute Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V _{CBO}	-120	V	
Collector-emitter voltage		V _{CEO}	-120	V	
Emitter-base voltage		V _{EBO}	-5	V	
Collector current		Ic	-1	Α	
Base current		Ι _Β	-100	mA	
Collector power dissipation	Ta = 25°C	Pc	1.5	W	
	Tc = 25°C		10		
Junction temperature		Тј	150	°C	
Storage temperature range		T _{stg}	−55 to 150	°C	

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e.



Weight: 0.82 g (typ.)

operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

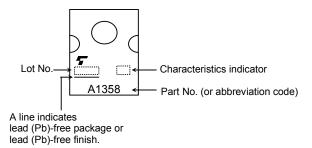


Electrical Characteristics (Tc = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = -120 V, I _E = 0	_	_	-100	nA
Emitter cut-off current	I _{EBO}	$V_{EB} = -5 \text{ V}, I_{C} = 0$	_	_	-100	nA
Collector-emitter breakdown voltage	V (BR) CEO	$I_C = -10 \text{ mA}, I_B = 0$	-120	_	_	٧
Emitter-base breakdown voltage	V (BR) EBO	I _E = -1 mA, I _C = 0	-5	_	_	V
DC current gain	h _{FE} (Note)	V _{CE} = -5 V, I _C = -100 mA	80	_	240	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = -500 mA, I _B = -50 mA	_	-0.40	-1.0	V
Base-emitter voltage	V_{BE}	$V_{CE} = -5 \text{ V, } I_{C} = -500 \text{ mA}$	_	-0.77	-1.0	V
Transition frequency	f _T	V _{CE} = -5 V, I _C = -100 mA	_	120	_	MHz
Collector output capacitance	C _{ob}	V _{CB} = -10 V, I _E = 0, f = 1 MHz	_	30	_	pF

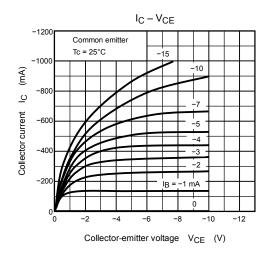
Note: hFE classification O: 80 to 160, Y: 120 to 240

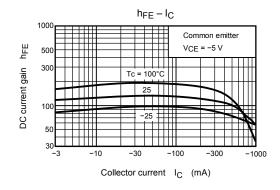
Marking

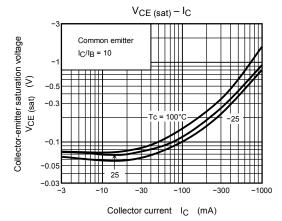


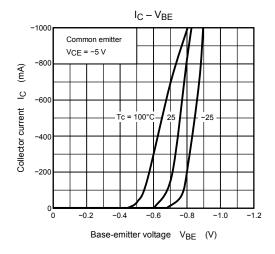
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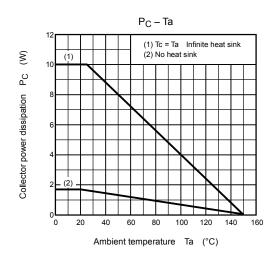
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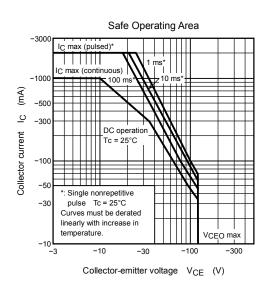












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