TOSHIBA Transistor Silicon NPN Triple Diffused Type

# 2SC5358

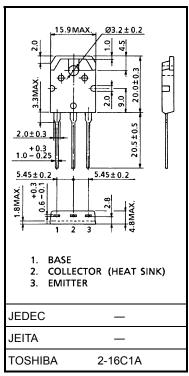
### **Power Amplifier Applications**

Unit: mm

- High breakdown voltage: VCEO = 230 V
- Complementary to 2SA1986
- Suitable for use in 80-W high fidelity audio amplifier's output stage

## Maximum Ratings (Tc = 25°C)

Characteristics	Symbol	Rating	Unit	
Collector-base voltage	V <sub>CBO</sub>	230	V	
Collector-emitter voltage	V <sub>CEO</sub>	230	V	
Emitter-base voltage	V <sub>EBO</sub>	5	V	
Collector current	I <sub>C</sub>	15	Α	
Base current	lΒ	1.5	Α	
Collector power dissipation	Pc	150	W	
(Tc = 25°C)	1 0	150	VV	
Junction temperature	Tj	150	°C	
Storage temperature range	T <sub>stg</sub>	-55 to 150	°C	



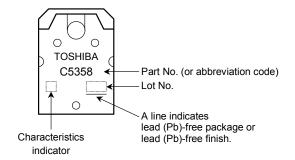
Weight: 4.7 g (typ.)

# **Electrical Characteristics (Tc = 25°C)**

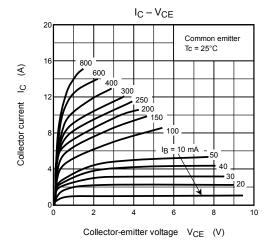
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> = 230 V, I <sub>E</sub> = 0	_	_	5.0	μΑ
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> = 5 V, I <sub>C</sub> = 0	_	_	5.0	μΑ
Collector-emitter breakdown voltage	V (BR) CEO	I <sub>C</sub> = 50 mA, I <sub>B</sub> = 0	230	_	_	V
DC current gain	h <sub>FE (1)</sub> (Note)	V <sub>CE</sub> = 5 V, I <sub>C</sub> = 1 A	55	_	160	
	h <sub>FE (2)</sub>	V <sub>CE</sub> = 5 V, I <sub>C</sub> = 7 A	35	87	_	
Collector-emitter saturation voltage	V <sub>CE (sat)</sub>	I <sub>C</sub> = 8 A, I <sub>B</sub> = 0.8 A	_	0.4	3.0	V
Base-emitter voltage	$V_{BE}$	V <sub>CE</sub> = 5 V, I <sub>C</sub> = 7 A	_	1.0	1.5	V
Transition frequency	f <sub>T</sub>	V <sub>CE</sub> = 5 V, I <sub>C</sub> = 1 A	_	30	_	MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> = 10 V, I <sub>E</sub> = 0, f = 1 MHz	_	200	_	pF

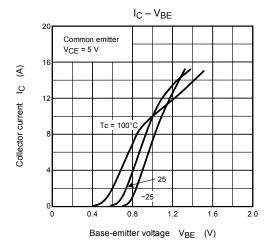
Note: h<sub>FE (1)</sub> classification R: 55 to 110, O: 80 to 160

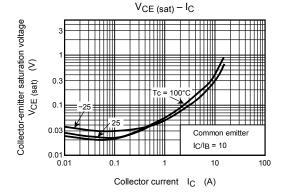
# Marking

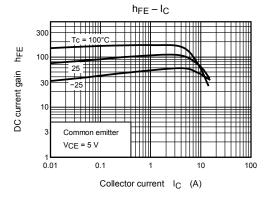


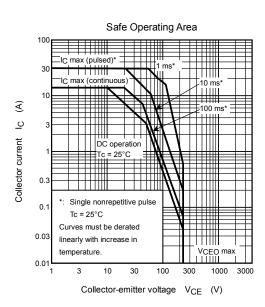
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