



ON Semiconductor®

ON Semiconductor DATA SHEET

PNP / NPN Epitaxial Planar Silicon Transistors

2SA1418 / 2SC3648 — High-Voltage Switching, Preriver Applications

Applications

- Color TV audio output, inverter.

Features

- Adoption of FBET, MBIT processes.
- High breakdown voltage and large current capacity.
- Fast switching speed.
- Ultrasmall size making it easy to provide high-density, small-sized hybrid IC's.

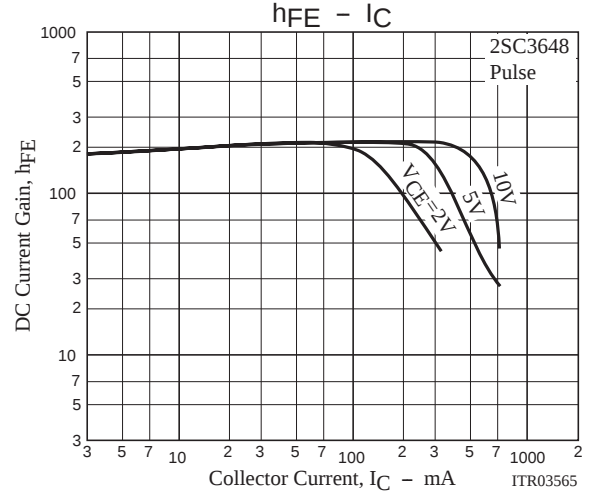
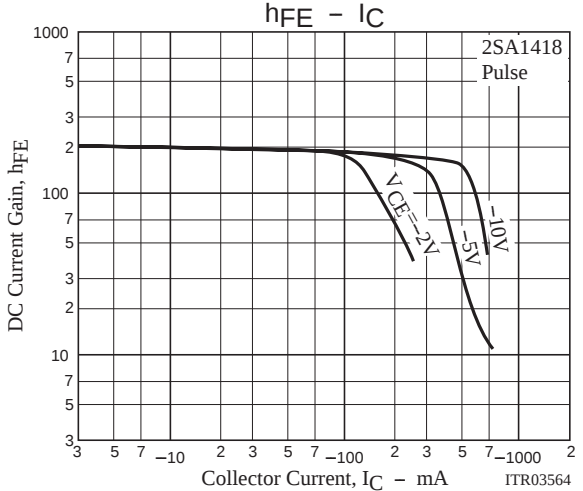
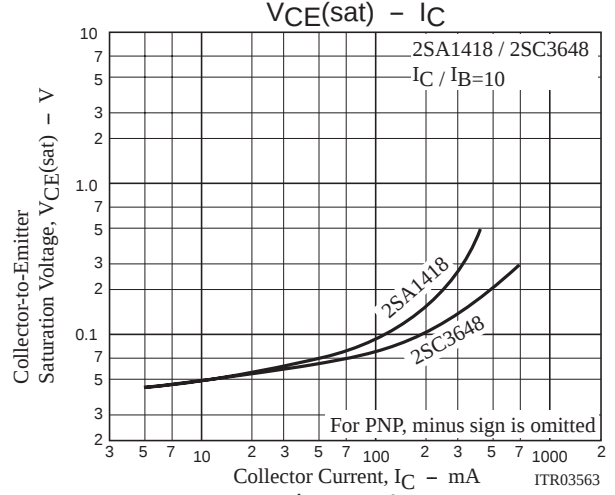
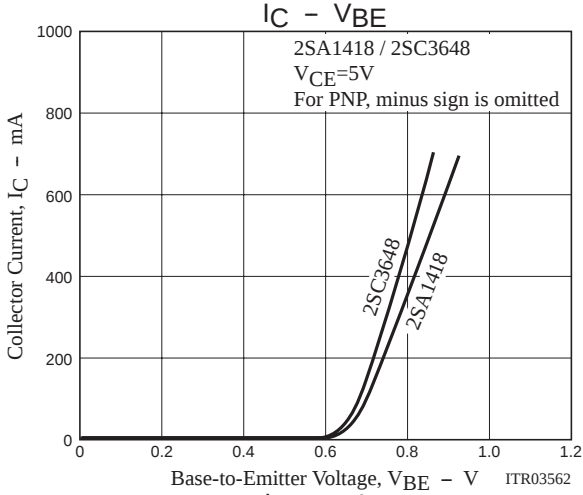
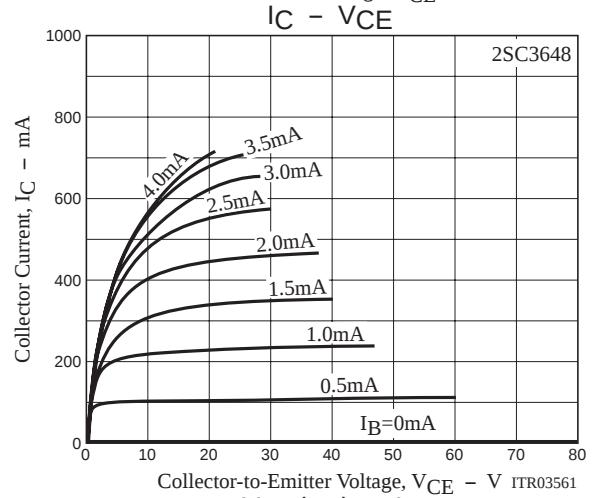
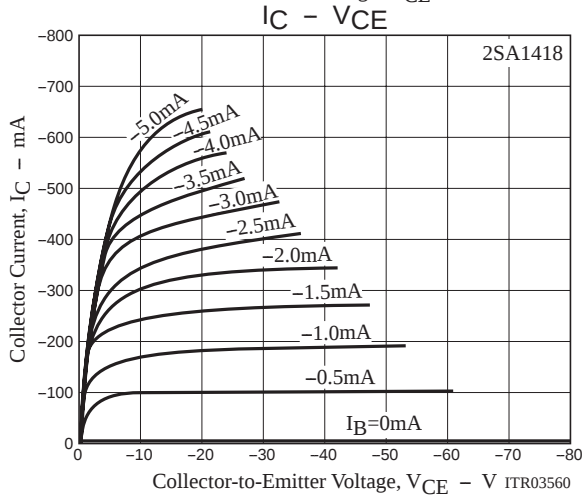
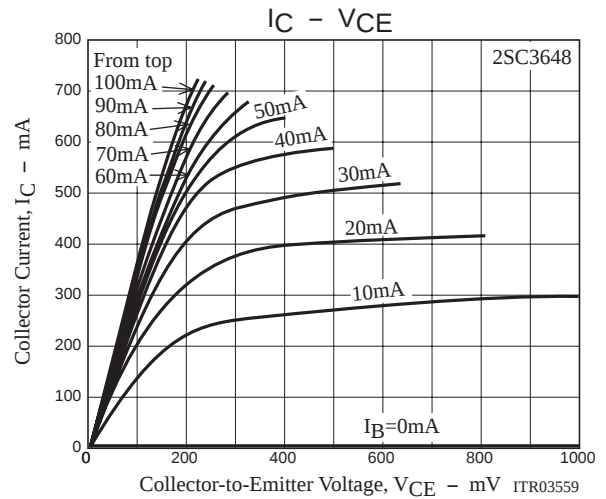
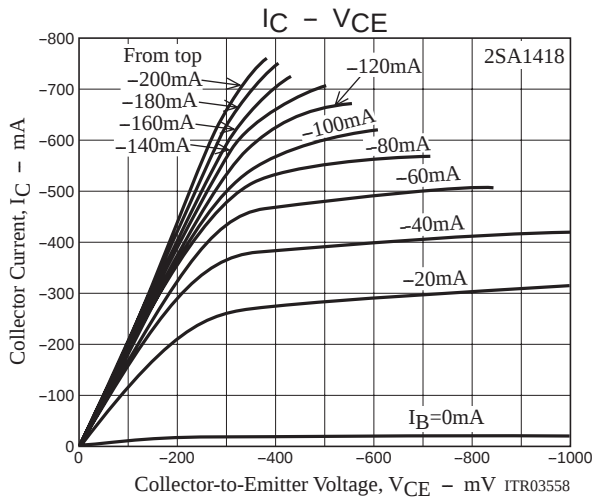
Specifications () : 2SA1418

Absolute Maximum Ratings at Ta=25°C

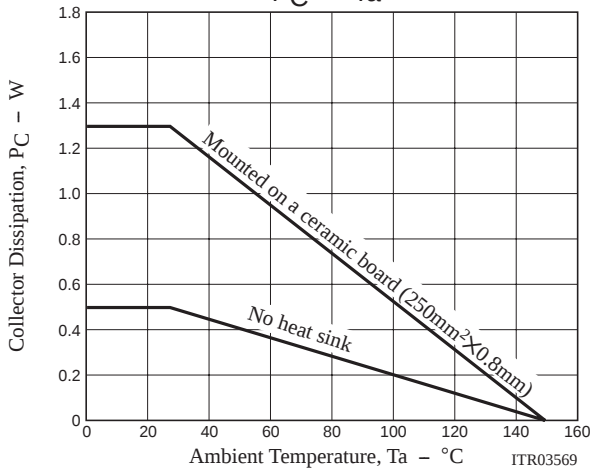
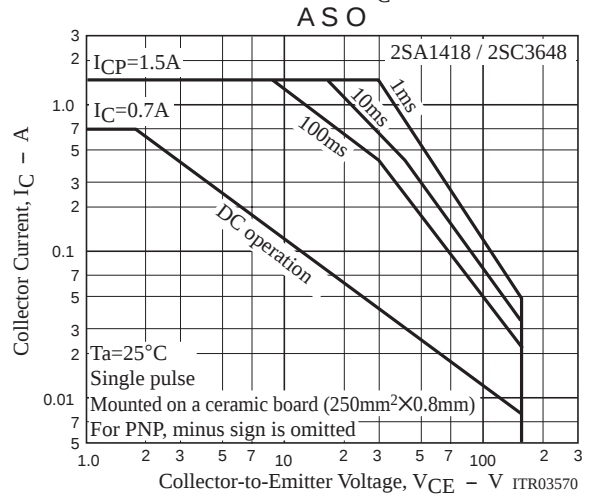
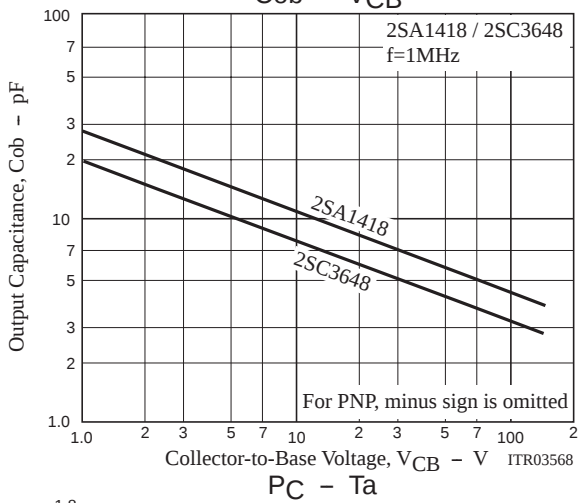
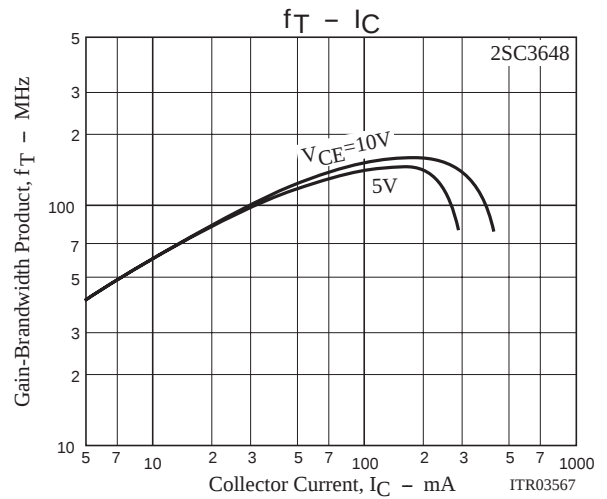
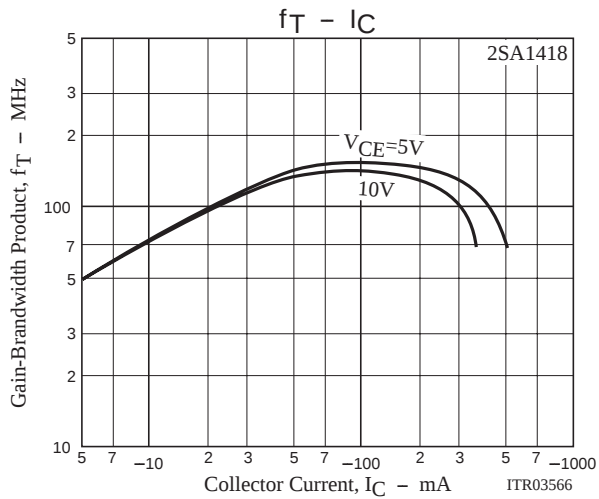
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(-)180	V
Collector-to-Emitter Voltage	VCEO		(-)160	V
Emitter-to-Base Voltage	VEBO		(-)6	V
Collector Current	IC		(-)0.7	A
Collector Current (Pulse)	ICP		(-)1.5	A
Collector Dissipation	PC		500	mW
		Mounted on a ceramic board (250mm²×0.8mm)	1.3	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Marking 2SA1418 : AD

2SC3648 : CD



2SA1418 / 2SC3648



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