



2SB1683 / 2SD2639

140V / 12A, AF 60W Output Applications

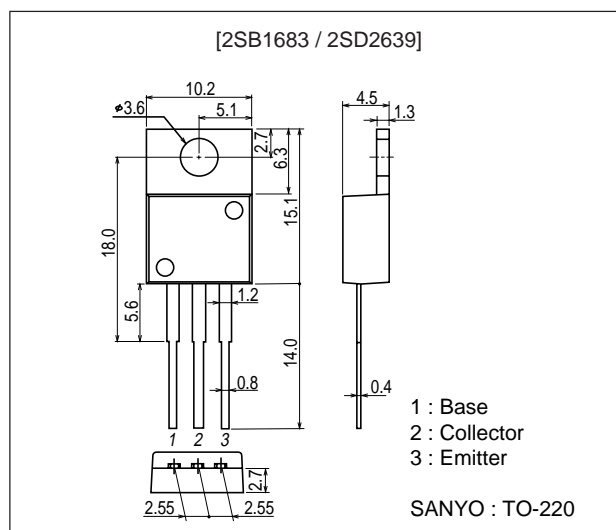
Features

- Wide ASO because of on-chip ballast resistance.
- Good dependence of f_T on current and good HF characteristic.

Package Dimensions

unit : mm

2010C



Specifications

() : 2SB1683

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CB0}		(-)160	V
Collector-to-Emitter Voltage	V_{CEO}		(-)140	V
Emitter-to-Base Voltage	V_{EBO}		(-)6	V
Collector Current	I_C		(-)12	A
Collector Current (Pulse)	I_{CP}		(-)15	A
Collector Dissipation	P_C	$T_c=25^\circ\text{C}$	80	W
Junction Temperature	T_j		150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-40 to +150	$^\circ\text{C}$

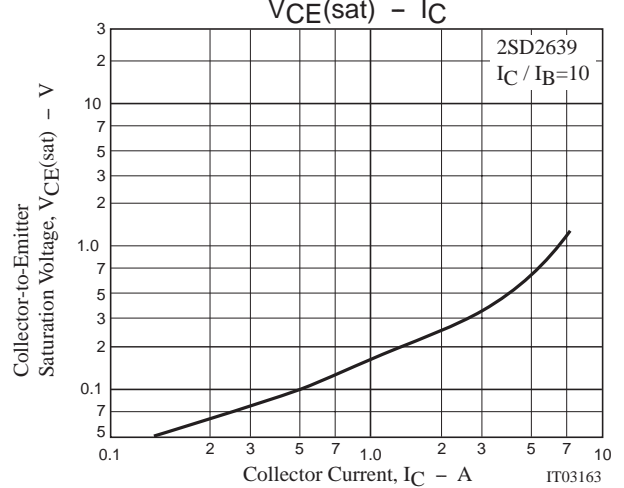
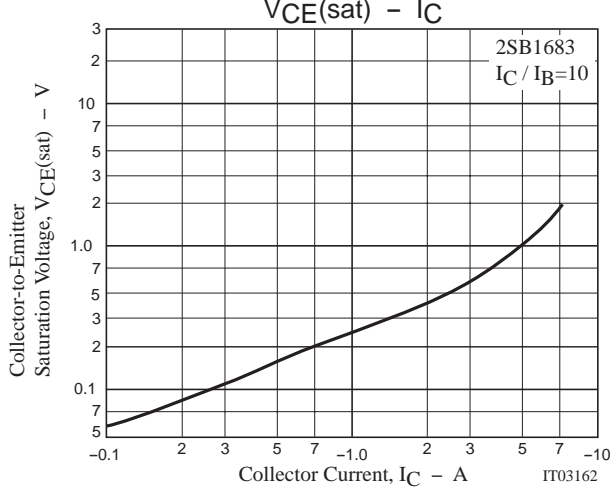
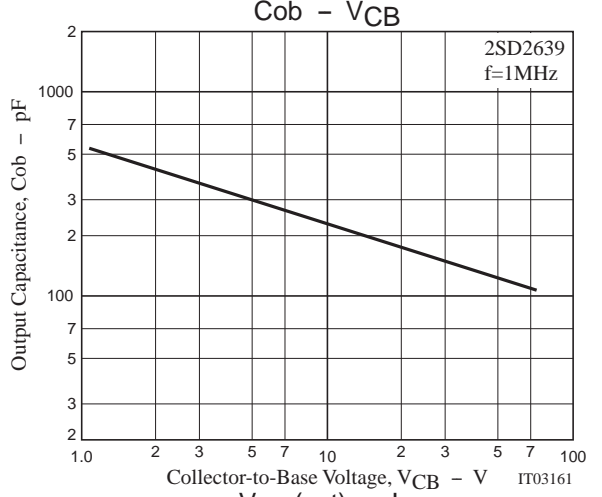
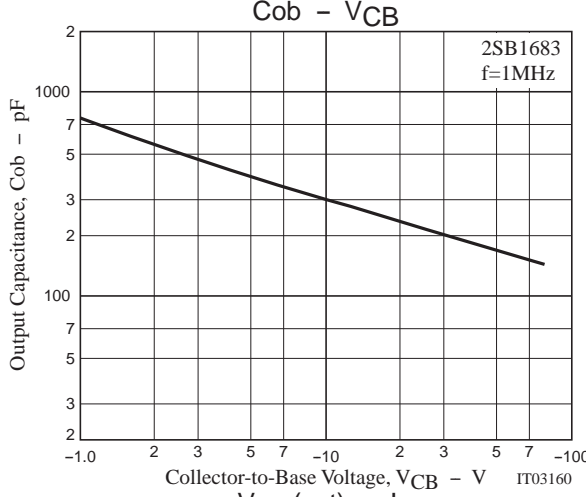
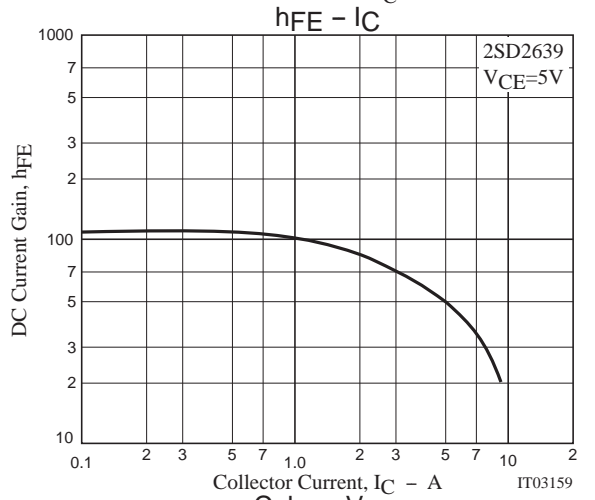
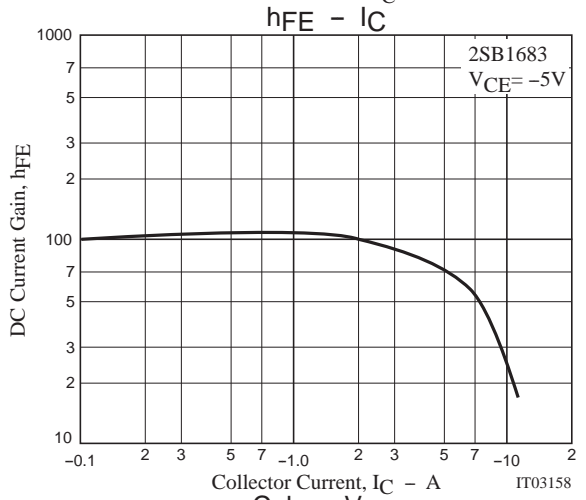
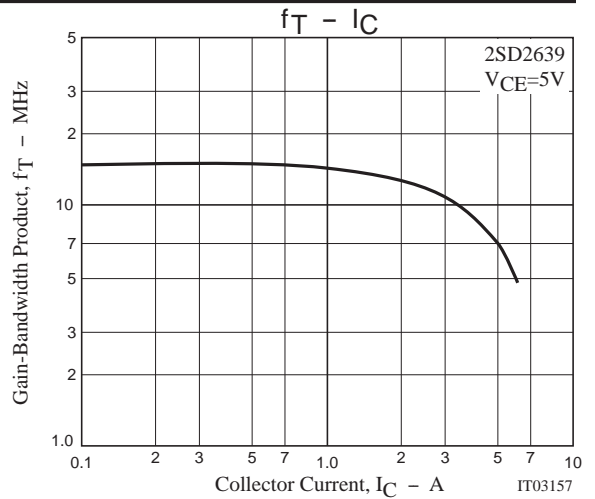
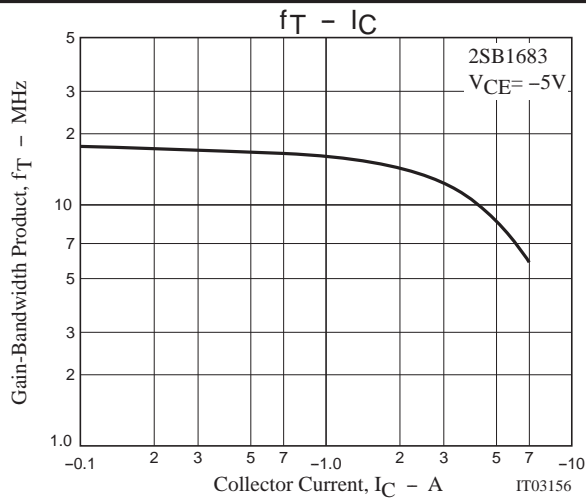
Electrical Characteristics at $T_a=25^\circ\text{C}$

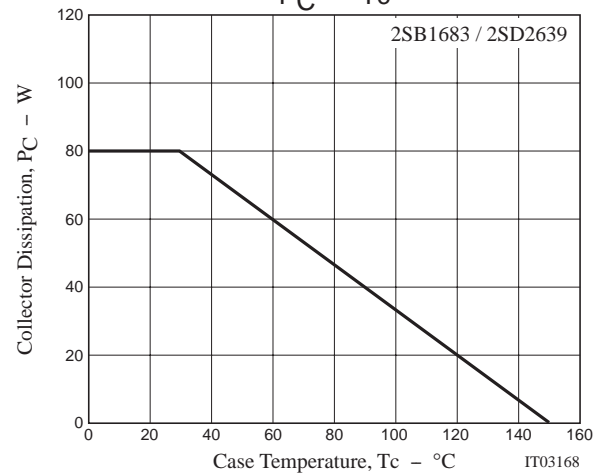
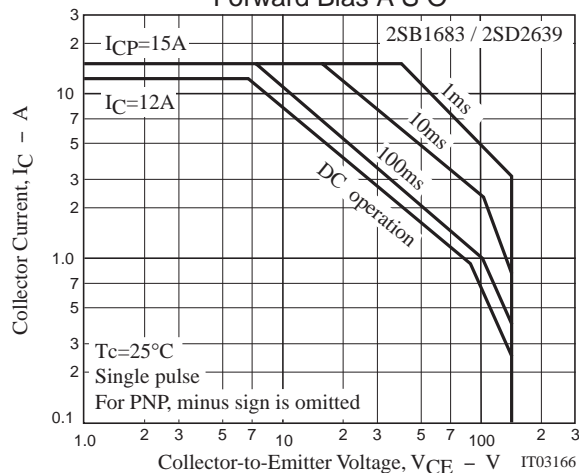
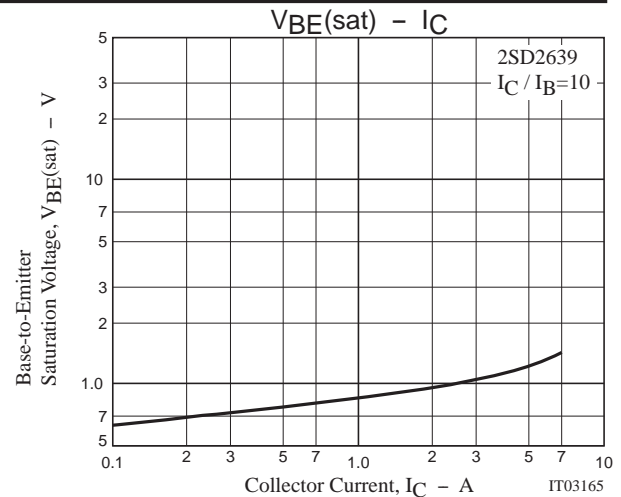
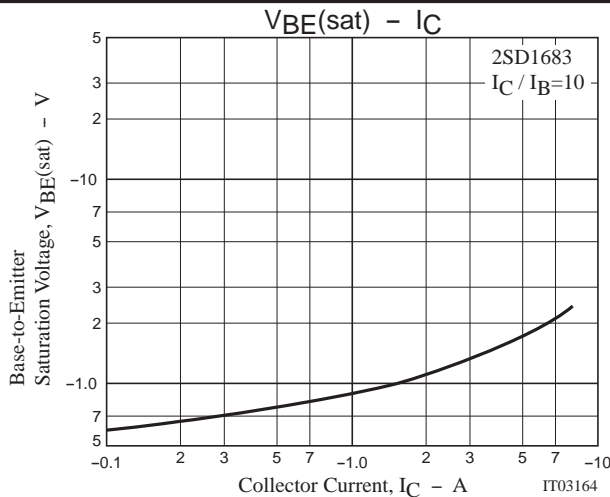
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=(-)80\text{V}, I_E=0$			(-)0.1	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=(-)4\text{V}, I_C=0$			(-)0.1	mA

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2SB1683 / 2SD2639





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