

2SB631, 631K/2SD600, 600K

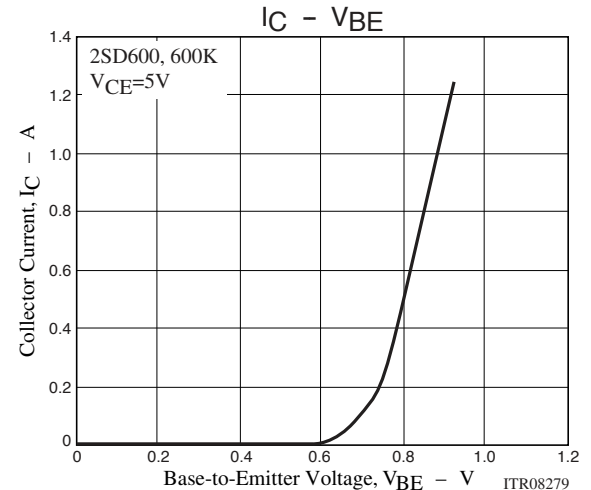
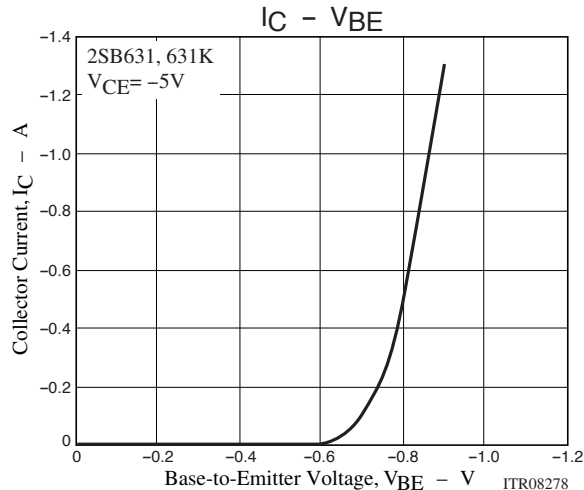
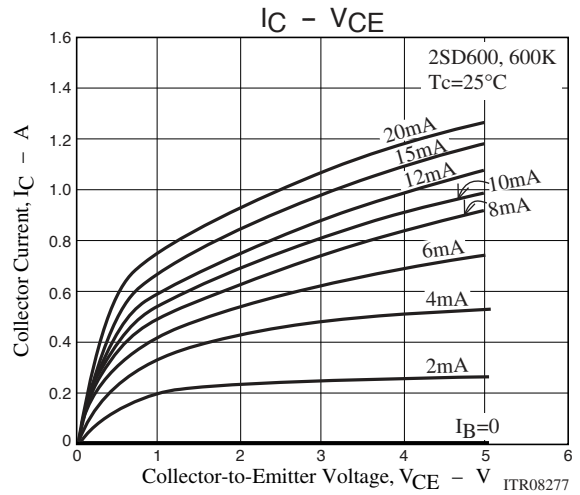
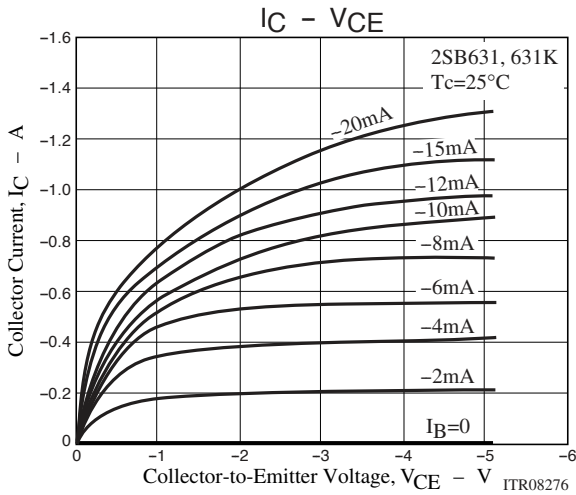
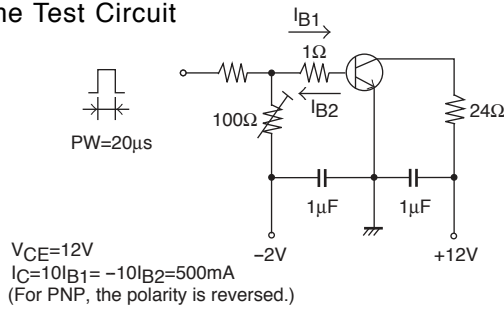
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
DC Current Gain	h_{FE1}	$V_{CE}=(-)5V, I_C=(-)50mA$	60*		320*	
	h_{FE2}	$V_{CE}=(-)5V, I_C=(-)500mA$	20			
Gain-Bandwidth Product	f_T	$V_{CE}=(-)10V, I_C=(-)50mA$		(110)		MHz
Output Capacitance	C_{ob}	$V_{CB}=(-)10V, f=1MHz$		(30)20		pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=(-)500mA, I_B=(-)50mA$		(-)0.15	(-)0.4	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=(-)500mA, I_B=(-)50mA$		(-)0.85	(-)1.2	V
Fall Time	t_f	See specified Test Circuit		(80)		ns
				100		ns
Turn-OFF Time	t_{off}	See specified Test Circuit		(100)		ns
				500		ns
Storage Time	t_{stg}	See specified Test Circuit		(600)		ns
				700		ns

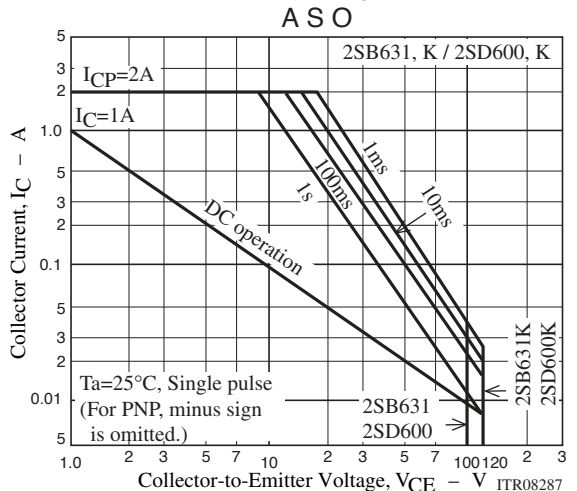
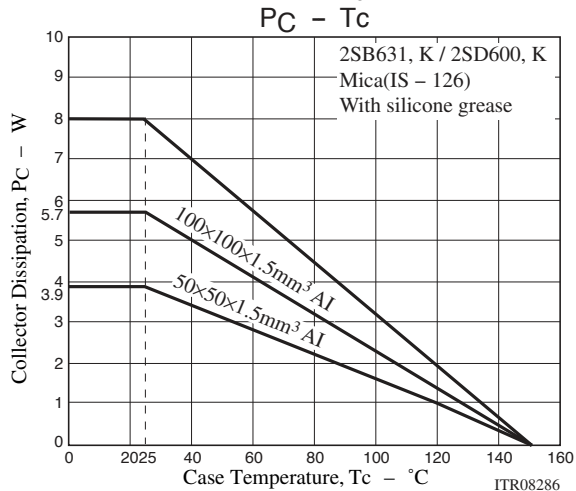
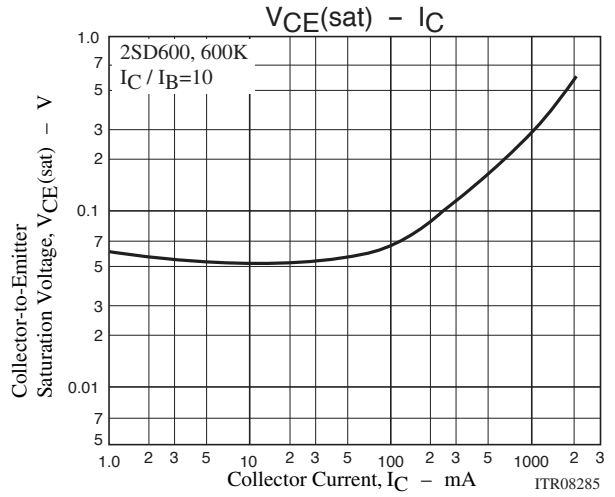
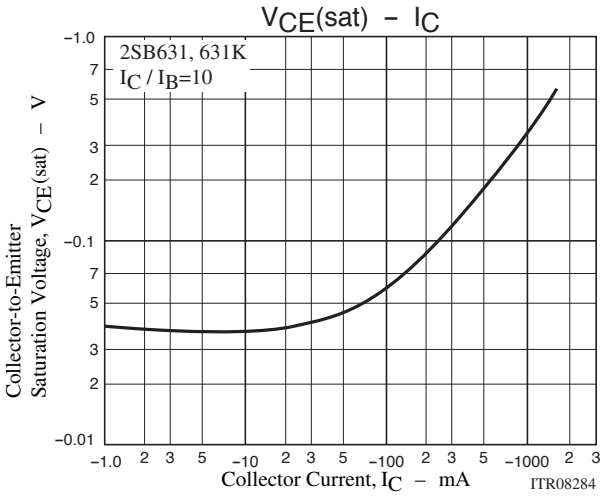
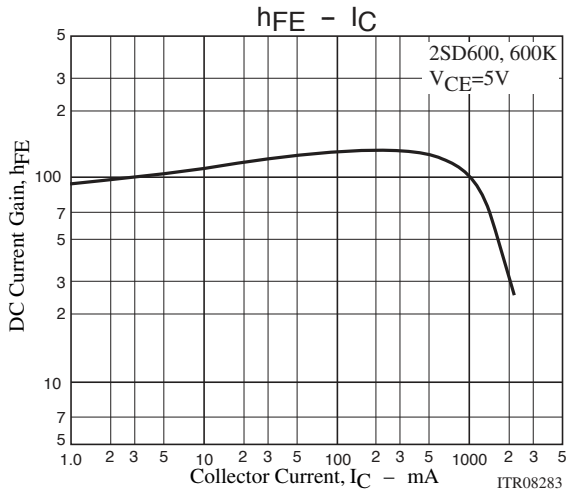
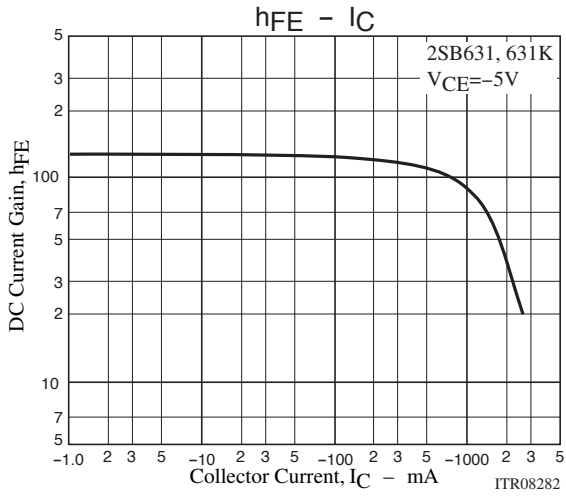
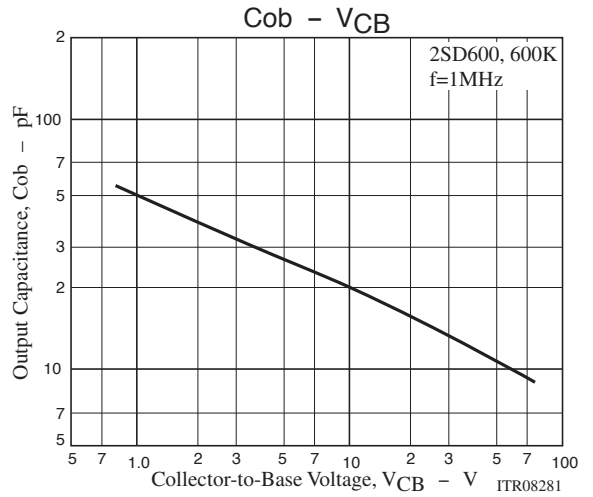
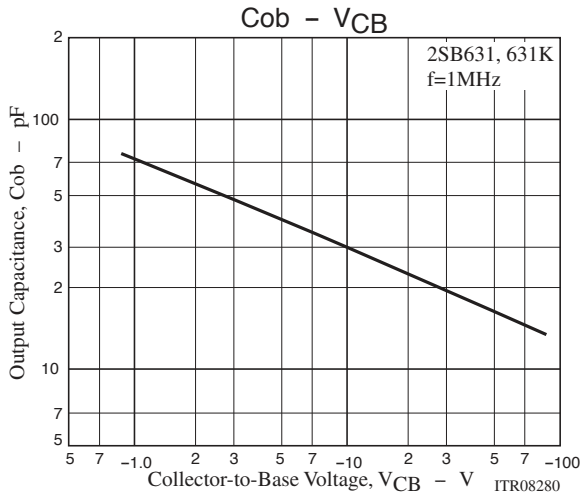
* : The 2SB631/2SD600 are classified by 50mA h_{FE} as follows :

Rank	D	E	F
h_{FE}	60 to 120	100 to 200	160 to 320

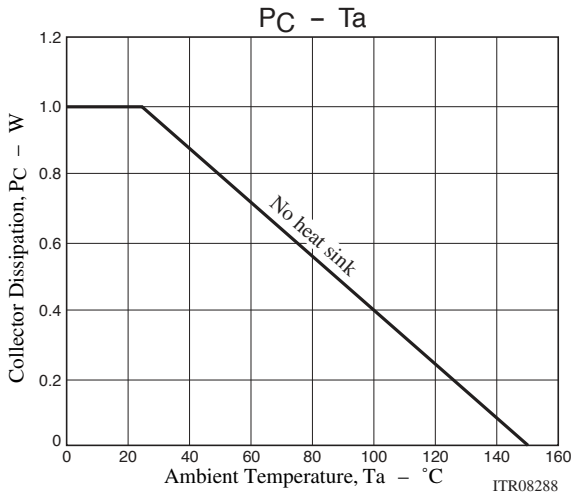
Switching Time Test Circuit



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