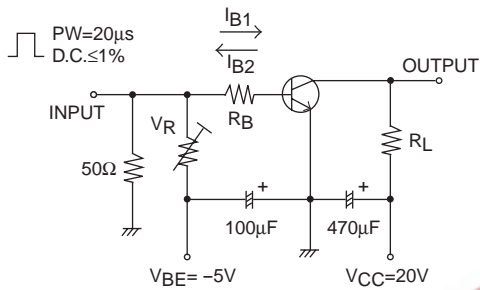


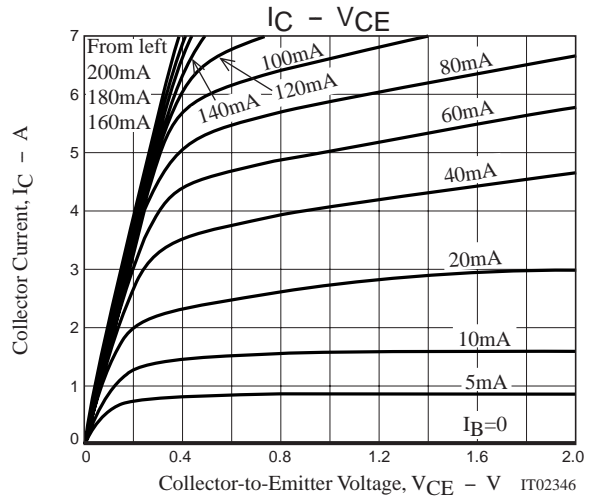
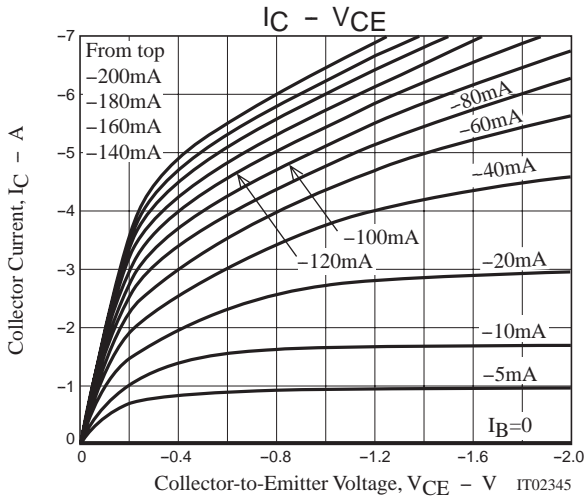
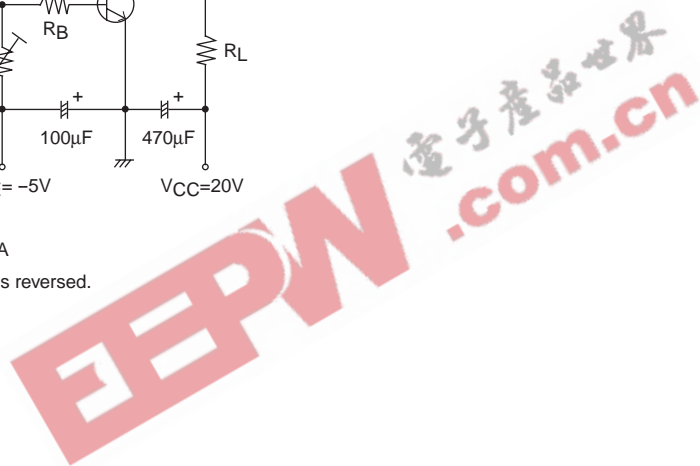
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)40V, I_E = 0$			(-)0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)4V, I_C = 0$			(-)0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = (-)2V, I_C = (-)1A$	150		300	
Gain-Bandwidth Product	f_T	$V_{CE} = (-)10V, I_C = (-)500mA$		(290)330		MHz
Output Capacitance	C_{ob}	$V_{CB} = (-)10V, f = 1MHz$		(50)28		pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)2.5A, I_B = (-)125mA$		(-150)130	(-300)260	mV
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = (-)2.5A, I_B = (-)125mA$		(-)0.85	(-)1.2	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = (-)10\mu A, I_E = 0$	(-50)60			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = (-)1mA, R_{BE} = \infty$	(-)50			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = (-)10\mu A, I_C = 0$	(-)6			V
Turn-On Time	t_{on}	See specified test circuit.		30		ns
Storage Time	t_{stg}	See specified test circuit.		(250)300		ns
Fall Time	t_f	See specified test circuit.		15		ns

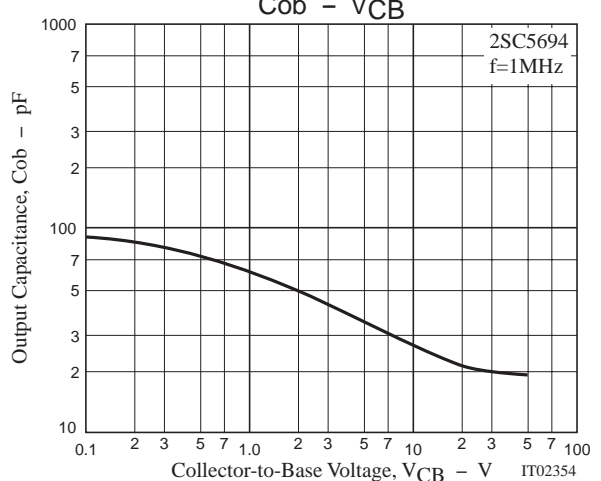
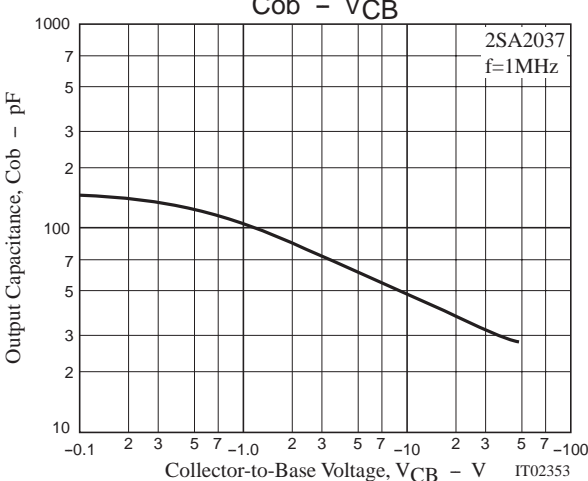
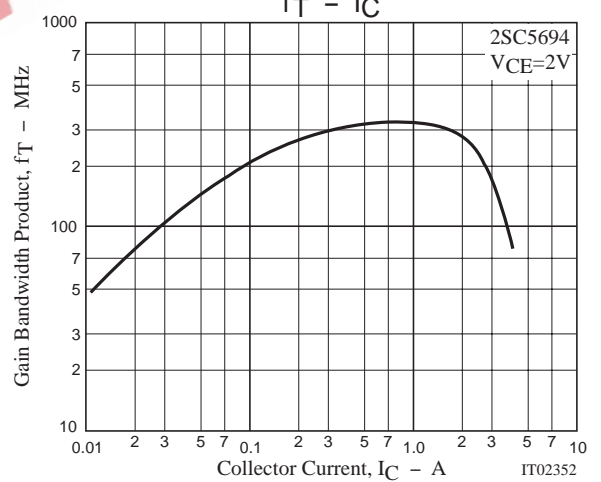
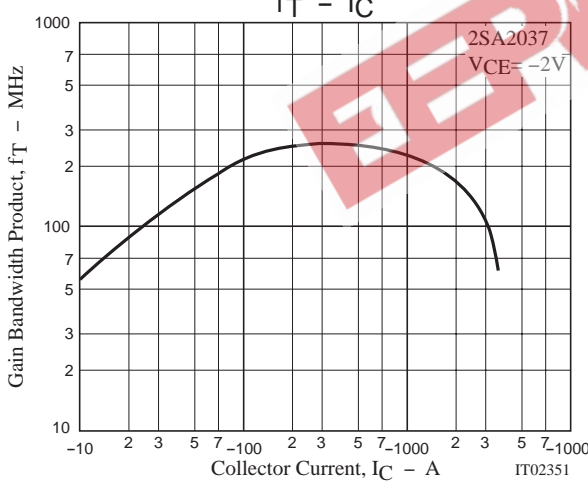
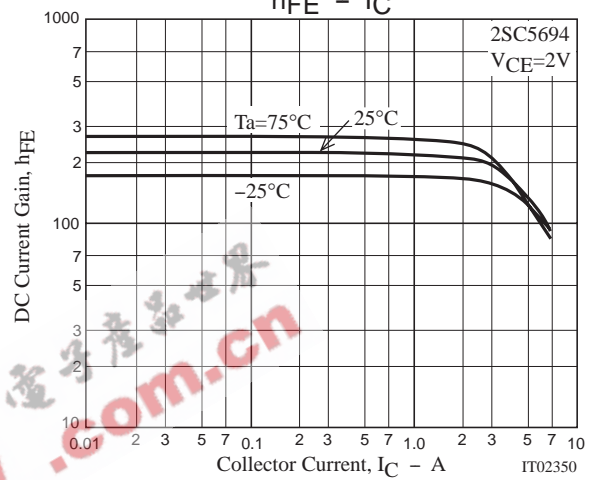
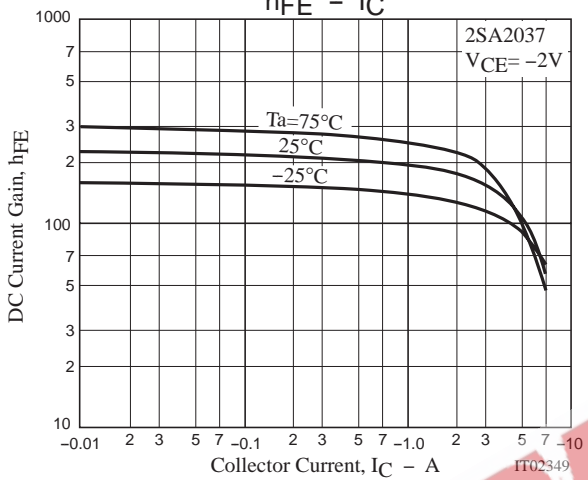
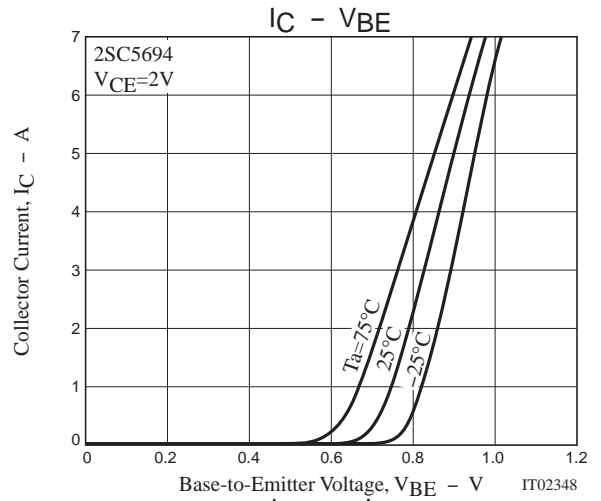
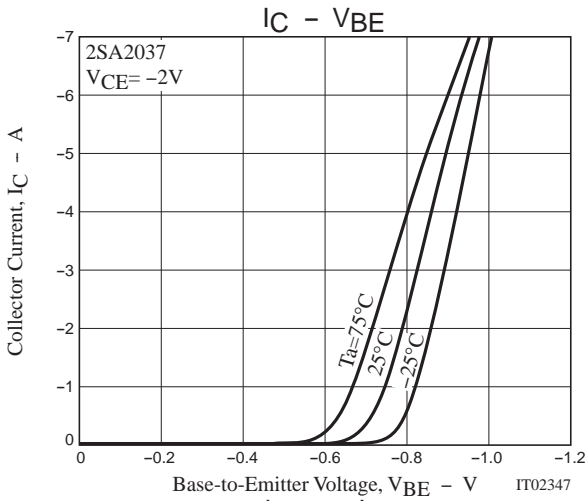
Switching Time Test Circuit



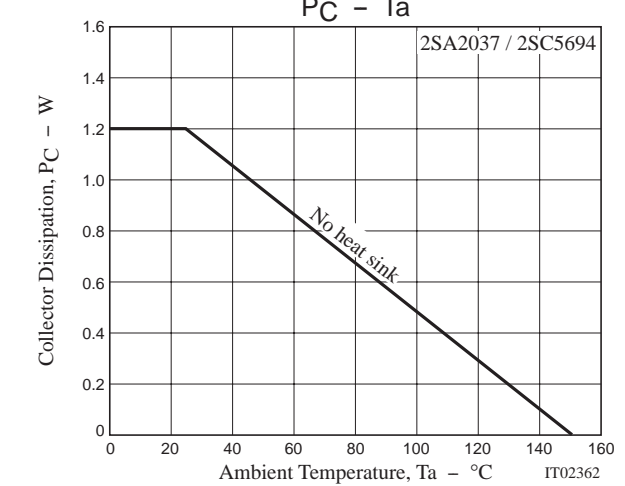
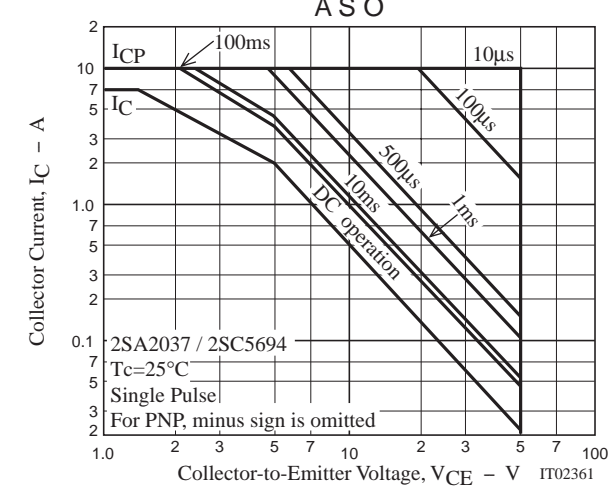
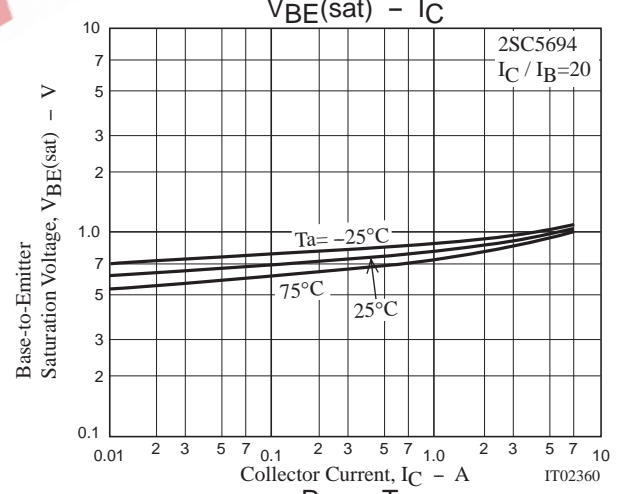
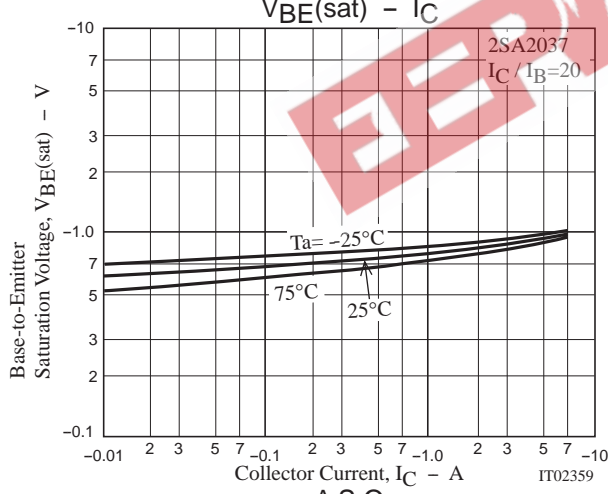
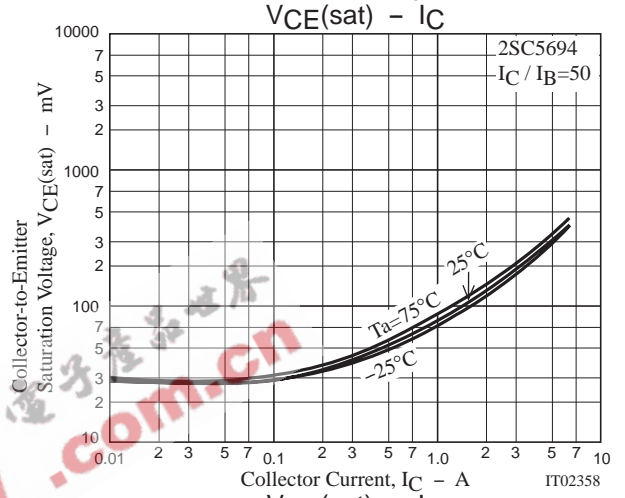
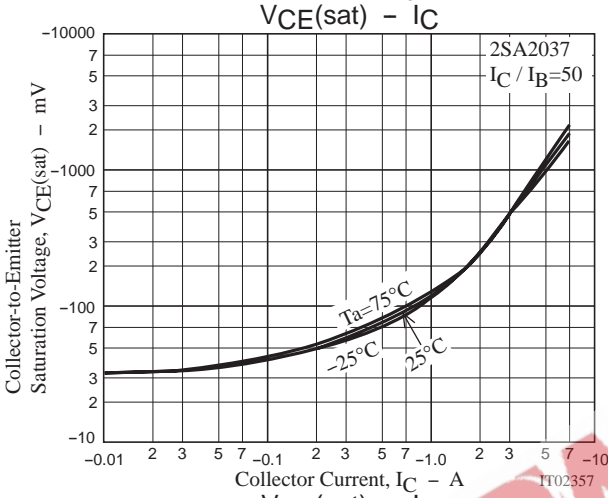
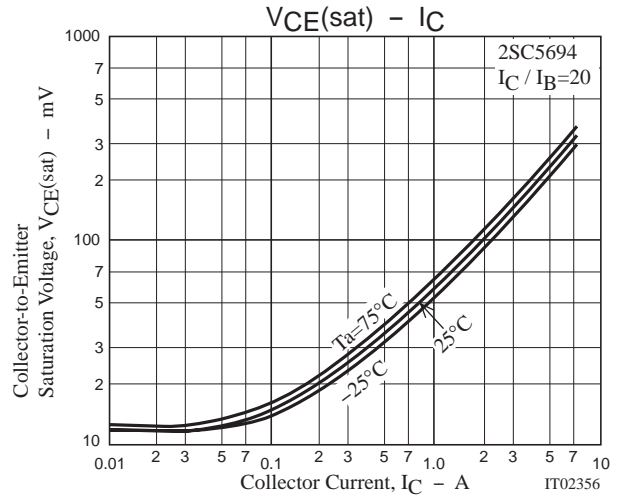
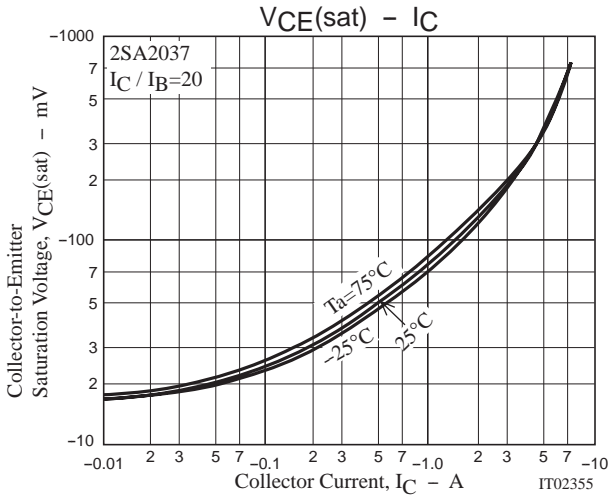
$10I_{B1} = -10I_{B2} = I_C = 2A$
For PNP, the polarity is reversed.

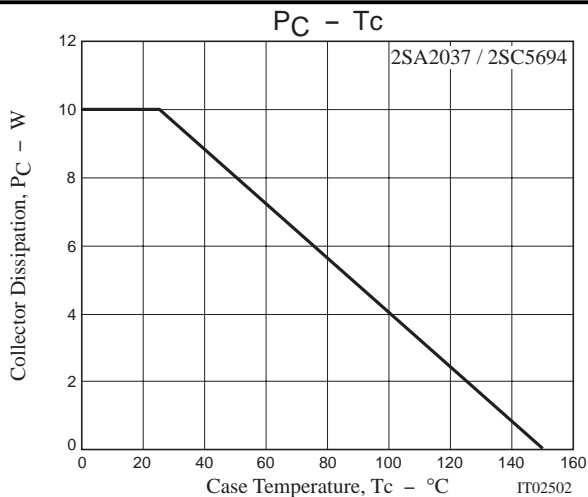


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