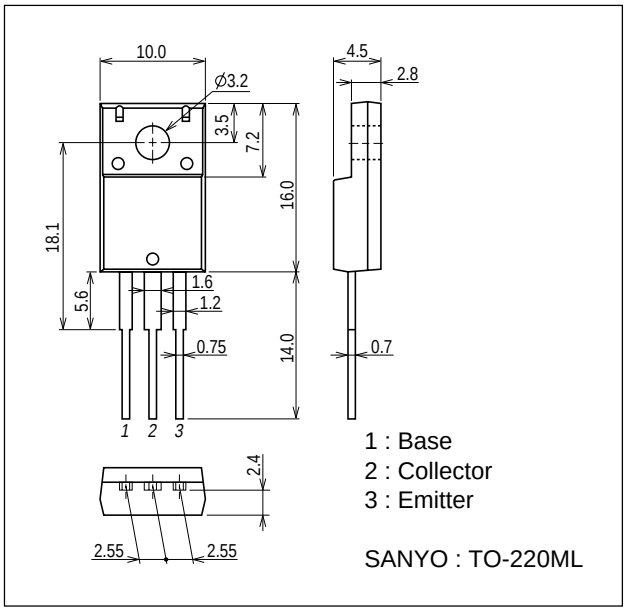
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	V_{CB}=–40V, I_E=0A			–10	μA
Emitter Cutoff Current	I_{EBO}	V_{EB}=–4V, I_C=0A			–10	μA
DC Current Gain	h_{FE}	V_{CE}=–2V, I_C=–1A	150		450	
Gain-Bandwidth Product	f_T	V_{CE}=–10V, I_C=–1A		140		MHz
Output Capacitance	Cob	V_{CB}=–10V, f=1MHz		215		pF
Collector-to-Emitter Saturation Voltage	V_{CE}(sat)	I_C=–7A, I_B=–350mA		–200	–500	mV
Base-to-Emitter Saturation Voltage	V_{BE}(sat)	I_C=–7A, I_B=–350mA			–1.2	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	I_C=–100μA, I_E=0A	–50			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=–1mA, R_{BE}=∞	–50			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	I_E=–100μA, I_C=0A	–6			V
Turn-ON Time	t_{on}	See specified Test Circuit.		60		ns
Storage Time	t_{stg}	See specified Test Circuit.		270		ns
Fall Time	t_f	See specified Test Circuit.		20		ns

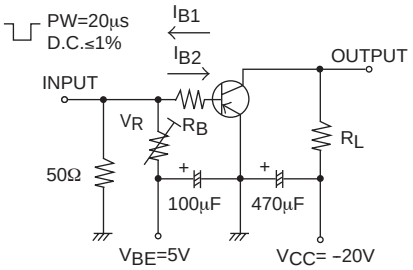
Package Dimensions

unit : mm (typ)

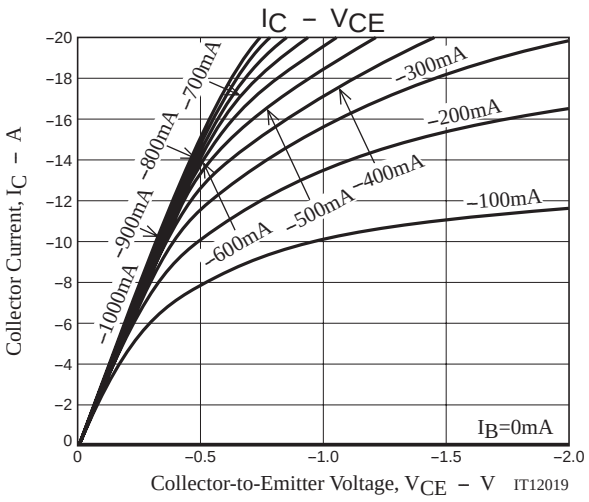
7508-002

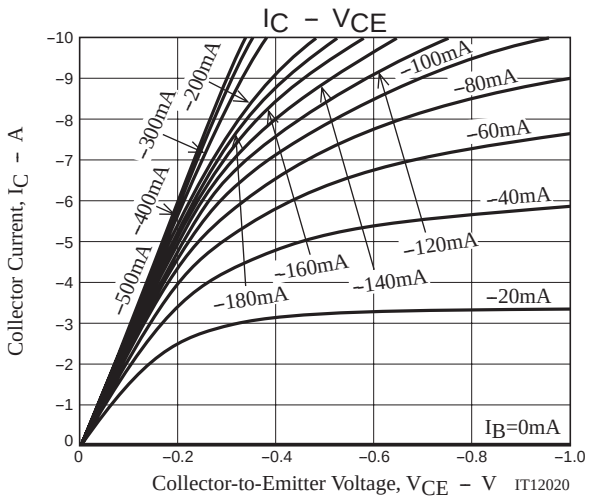


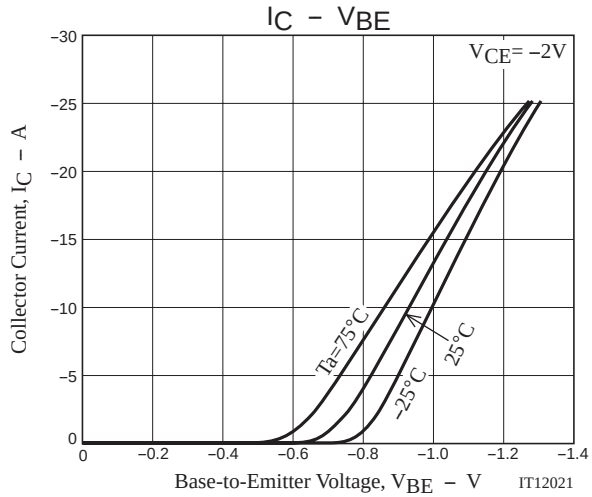
Switching Time Test Circuit

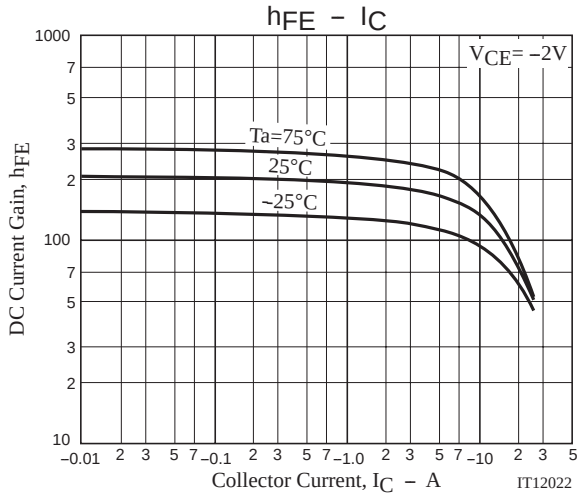


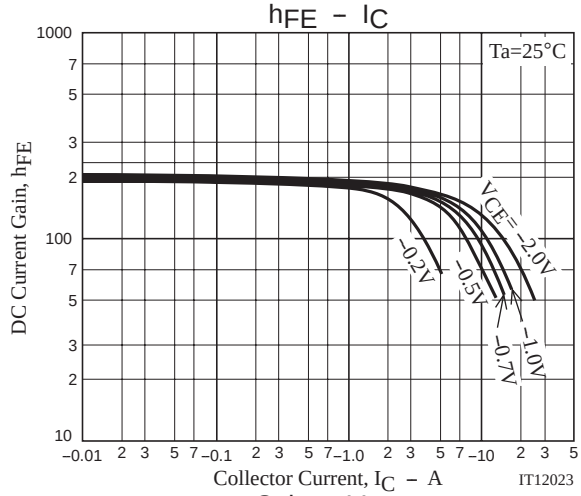
I_C=20I_{B1}= –20I_{B2}= –7A

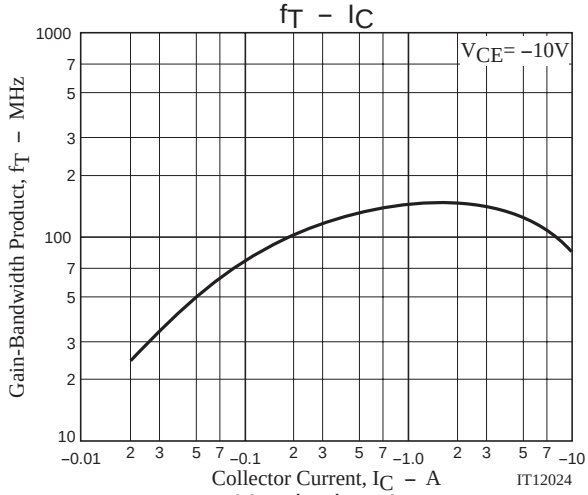


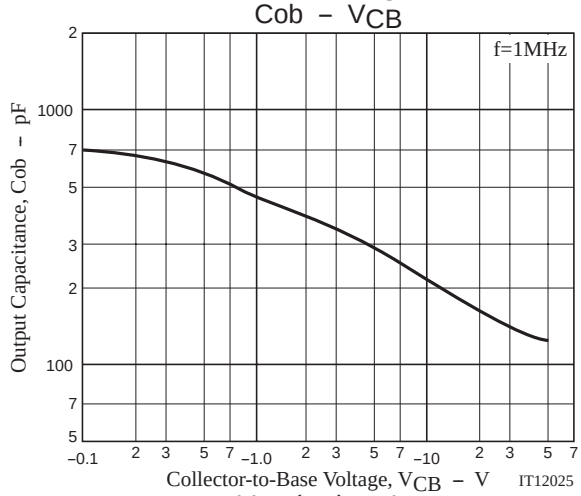


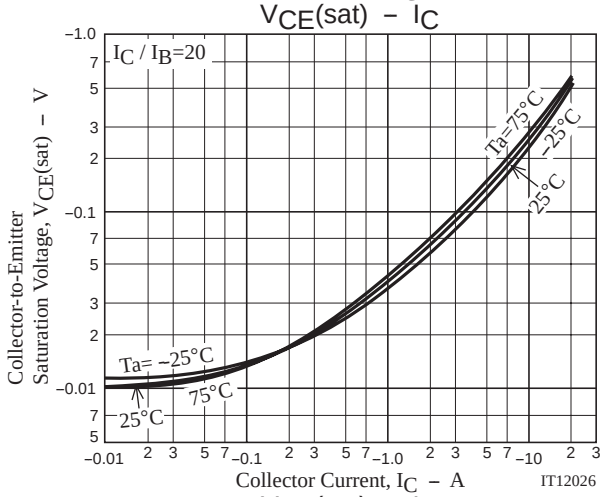


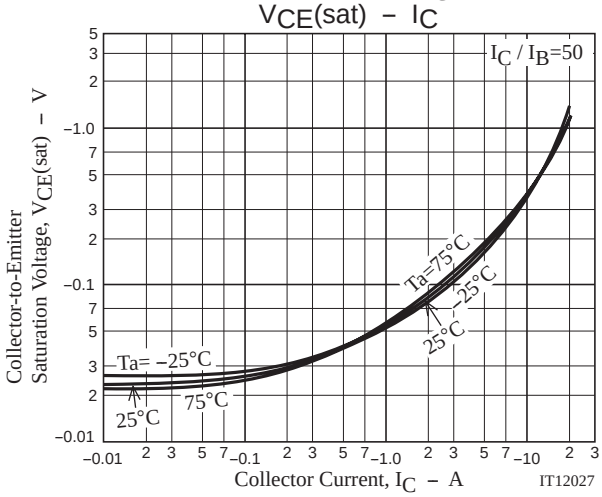


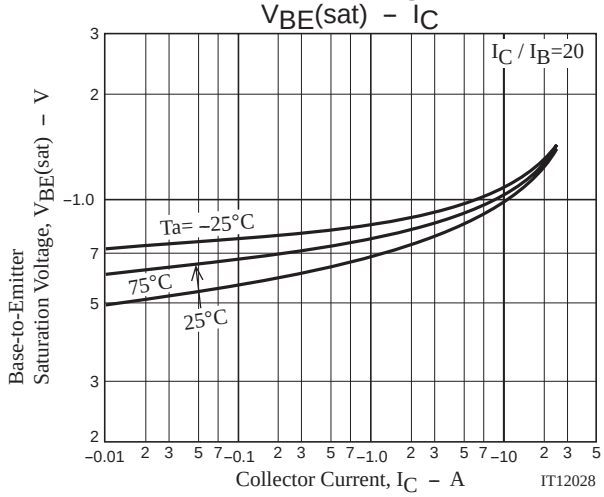


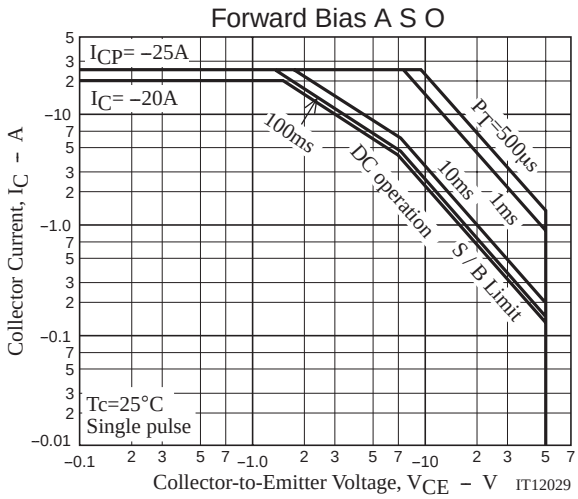


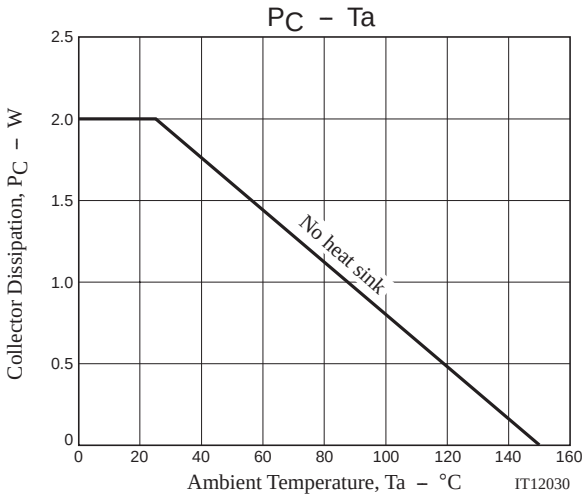


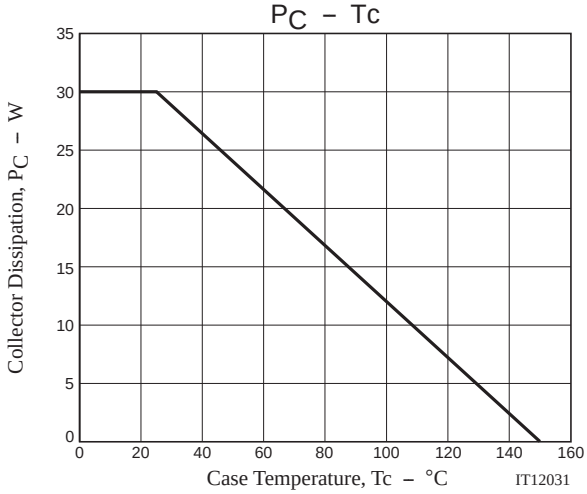












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