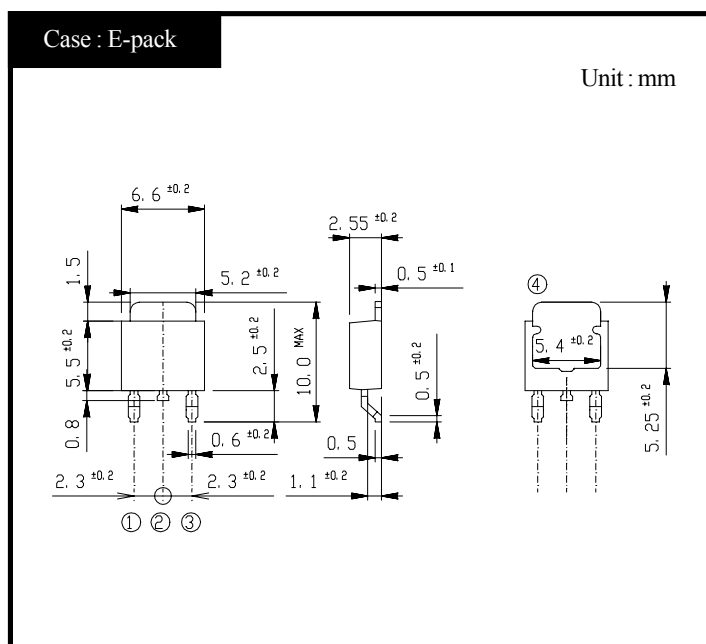


2SA1876 (TE3T8)

-3A PNP

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

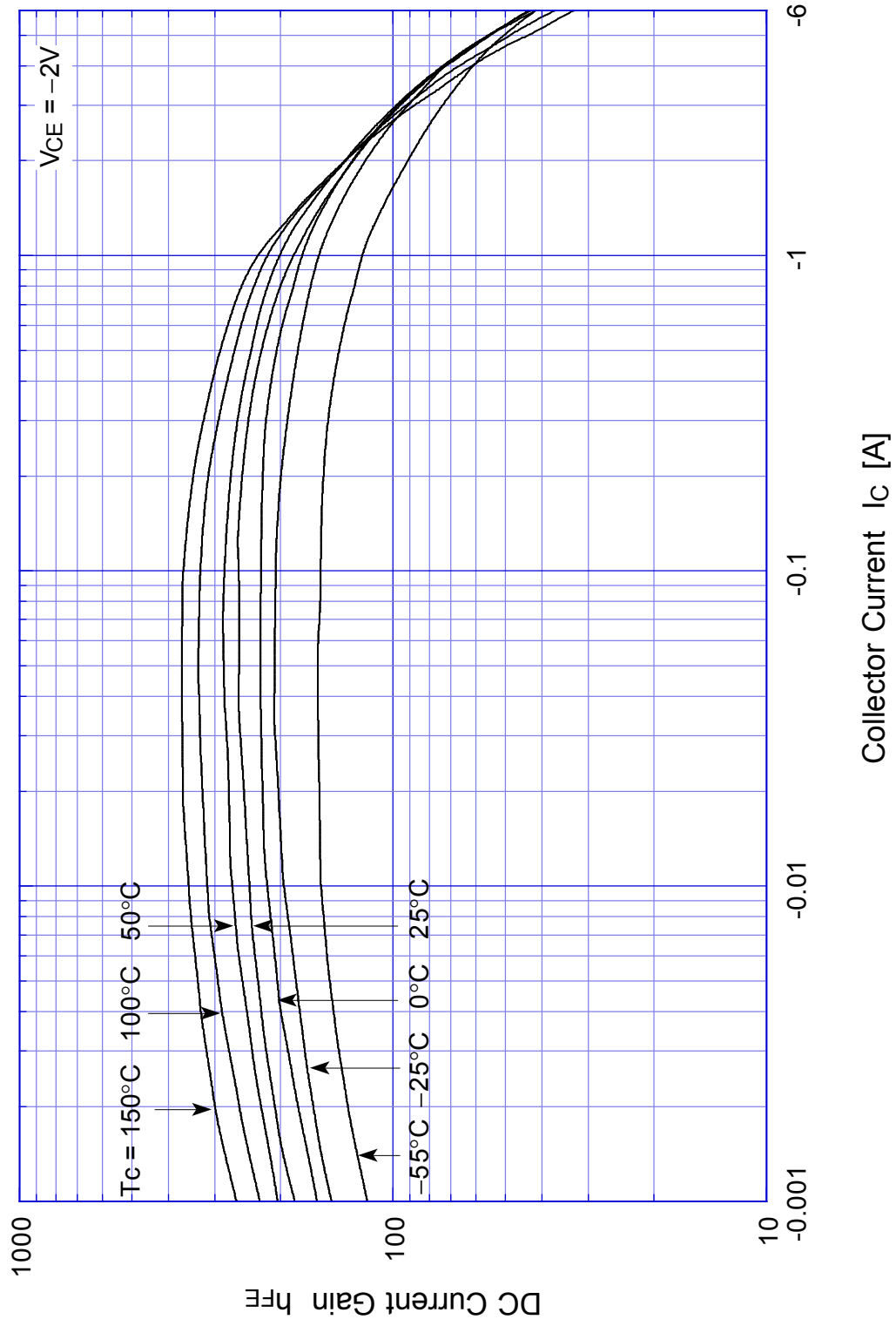
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55~150	°C
Junction Temperature	T _j		150	°C
Collector to Base Voltage	V _{CB0}		-80	V
Collector to Emitter Voltage	V _{CEO}		-80	V
Emitter to Base Voltage	V _{EBO}		-7	V
Collector Current DC	I _C		-3	A
Collector Current Peak	I _{CP}		-6	A
Base Current DC	I _B		-1	A
Base Current Peak	I _{BP}		-1.5	A
Total Transistor Dissipation	P _T	T _c = 25°C	10	W

● Electrical Characteristics (T_c=25°C)

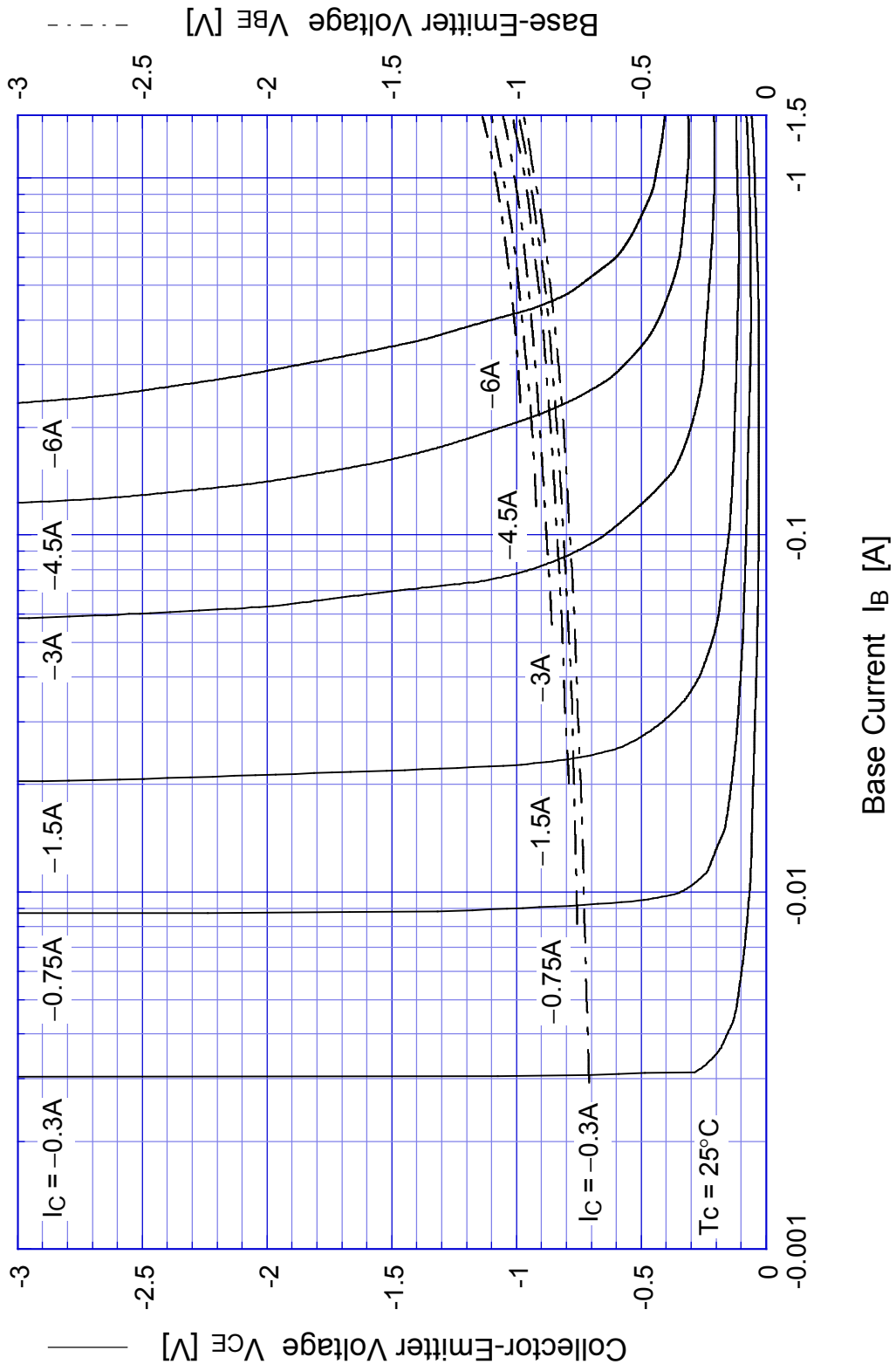
Item	Symbol	Conditions	Ratings	Unit
Collector to Emitter Sustaining Voltage	V _{CEO(sus)}	I _C = -0.05A	Min -80	V
Collector Cutoff Current	I _{CBO}	At rated Voltage	Max -0.1	mA
	I _{CEO}		Max -0.1	
Emitter Cutoff Current	I _{EBO}	At rated Voltage	Max -0.1	mA
DC Current Gain	h _{FE}	V _{CE} = -2V, I _C = -1.5A	Min 70	
Collector to Emitter Saturation Voltage	V _{CE(sat)}	I _C = -1.5A	Max -0.3	V
Base to Emitter Saturation Voltage	V _{BE(sat)}	I _B = -0.15A	Max -1.2	V
Thermal Resistance	θ _{jc}	Junction to case	Max 12.5	°C/W
Transition Frequency	f _T	V _{CE} = -10V, I _C = -0.3A	TYP 50	MHz
Turn on Time	ton	I _C = -1.5A I _{B1} = -0.15A, I _{B2} = -0.15A R _L = 20 Ω, V _{BB2} = -4V	Max 0.3	μs
Storage Time	ts		Max 1.5	
Fall Time	tf		Max 0.2	

2SA1876

hFE - I_C

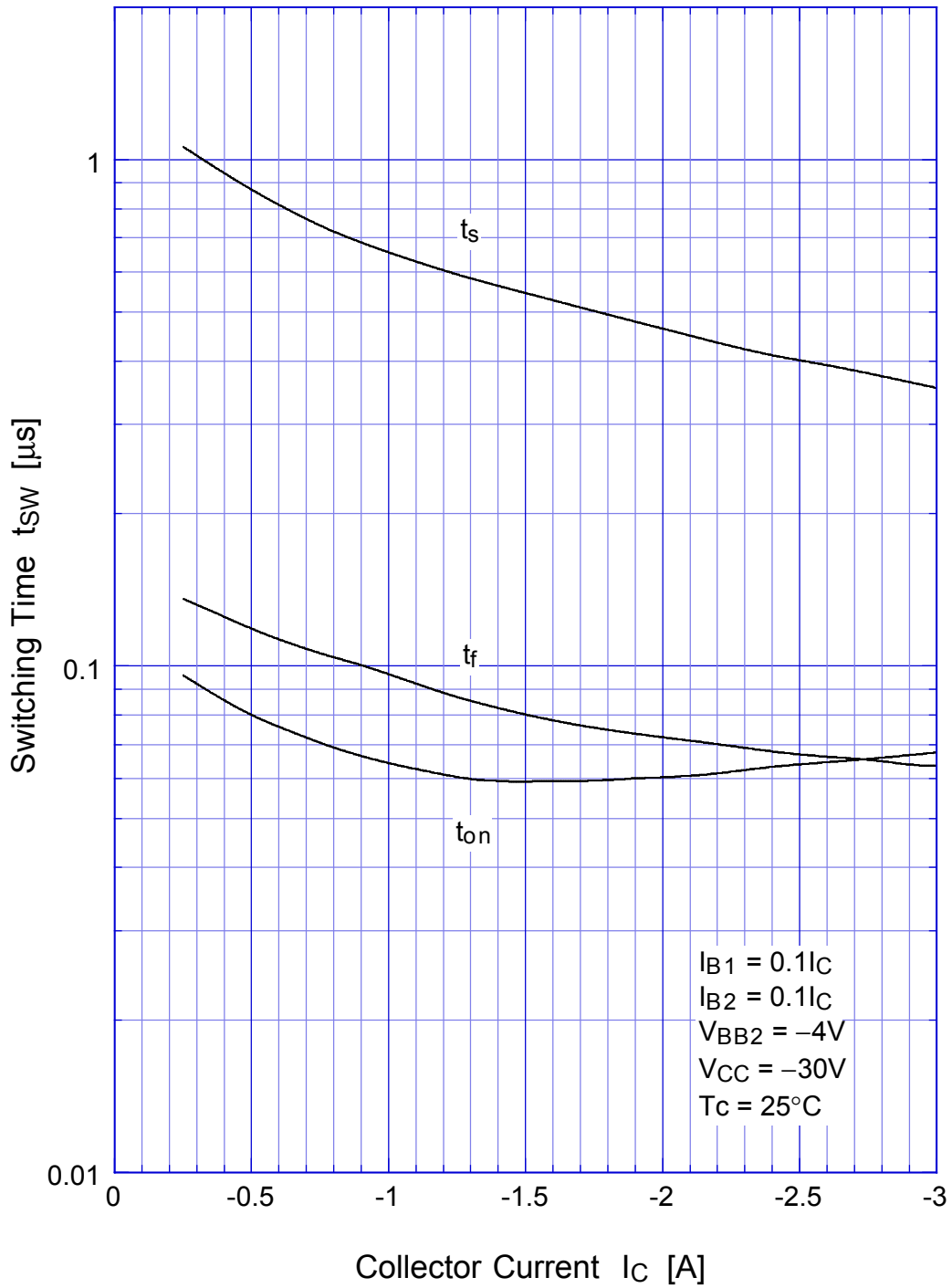


2SA1876 Saturation Voltage



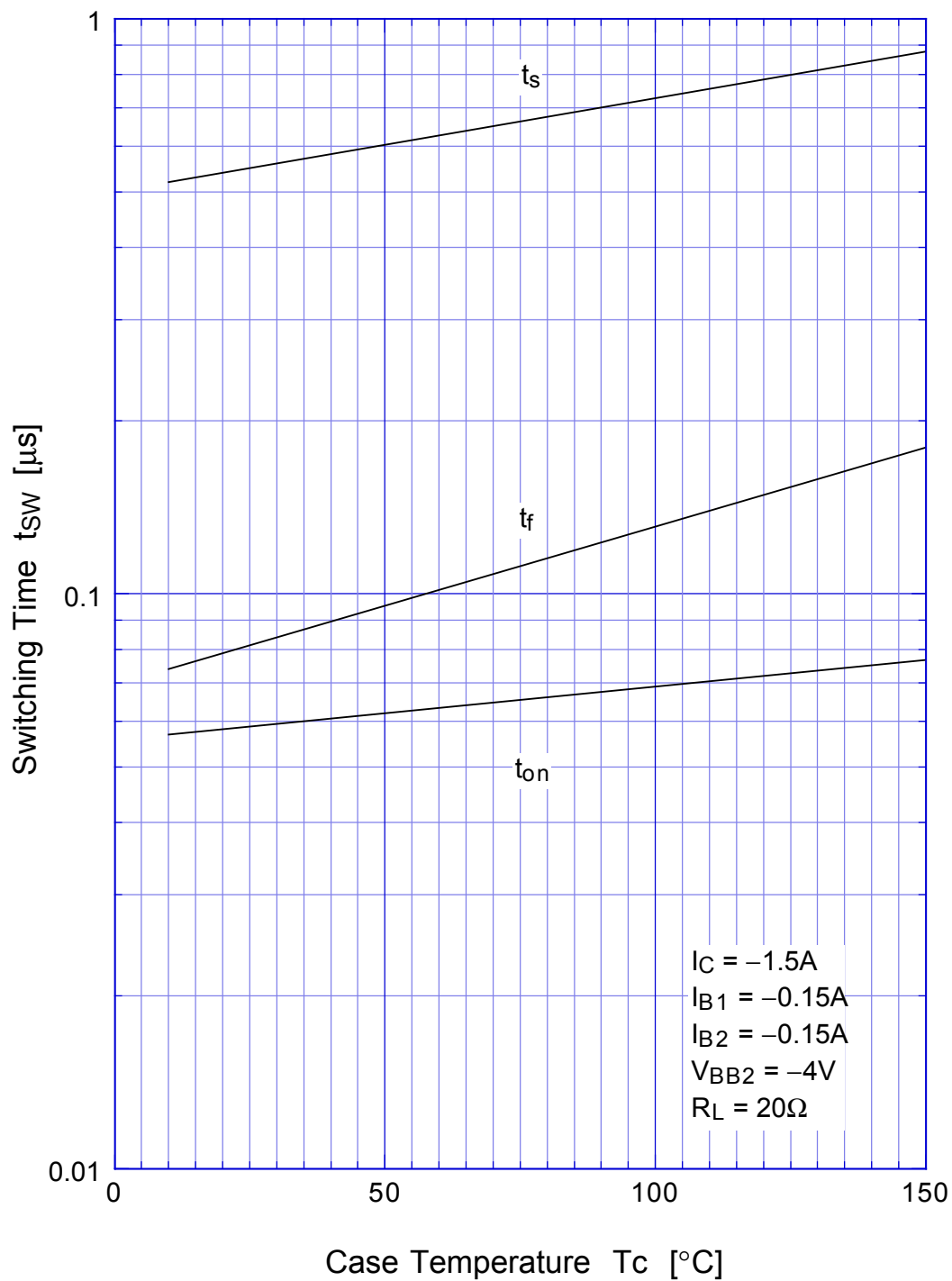
2SA1876

Switching Time - I_C

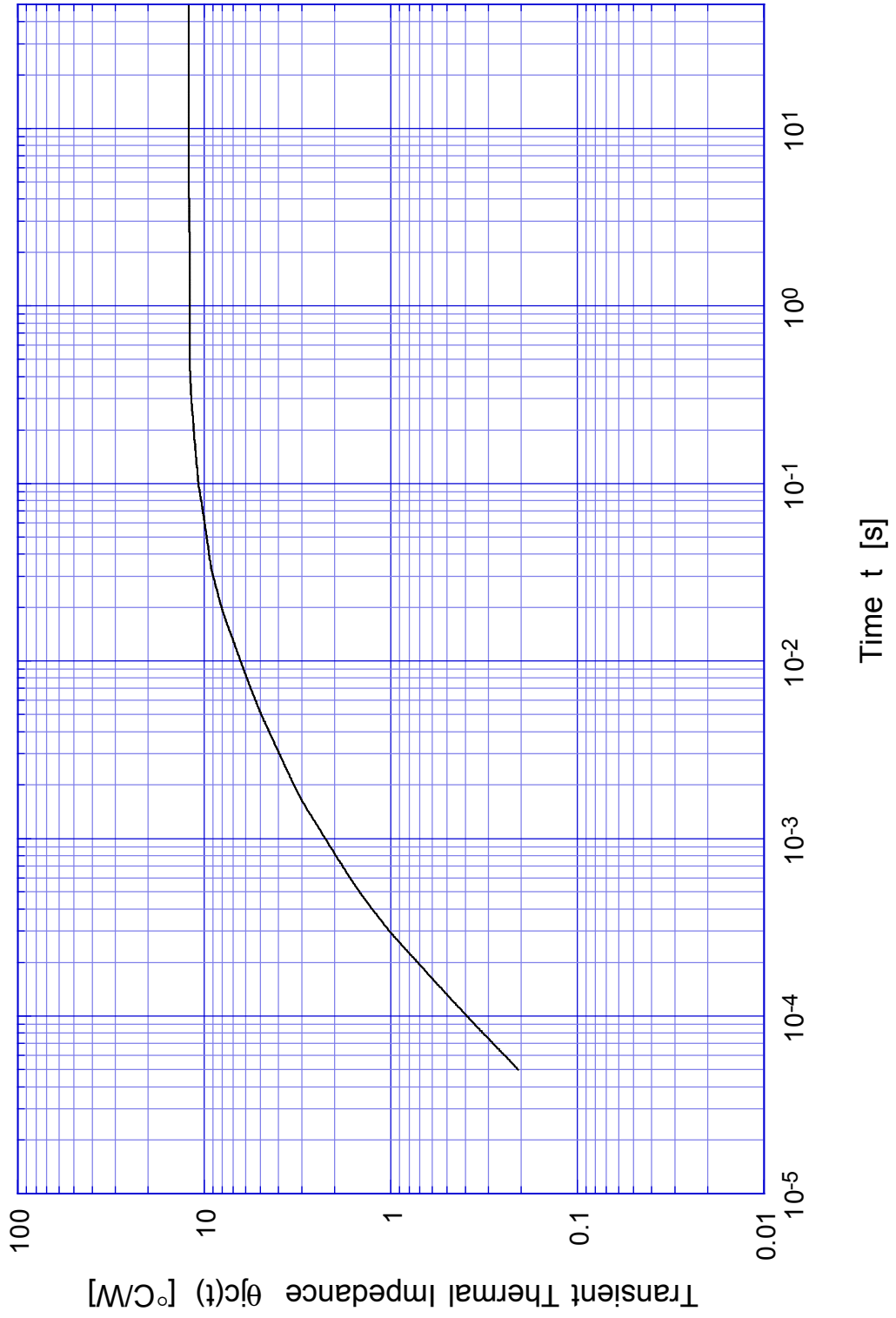


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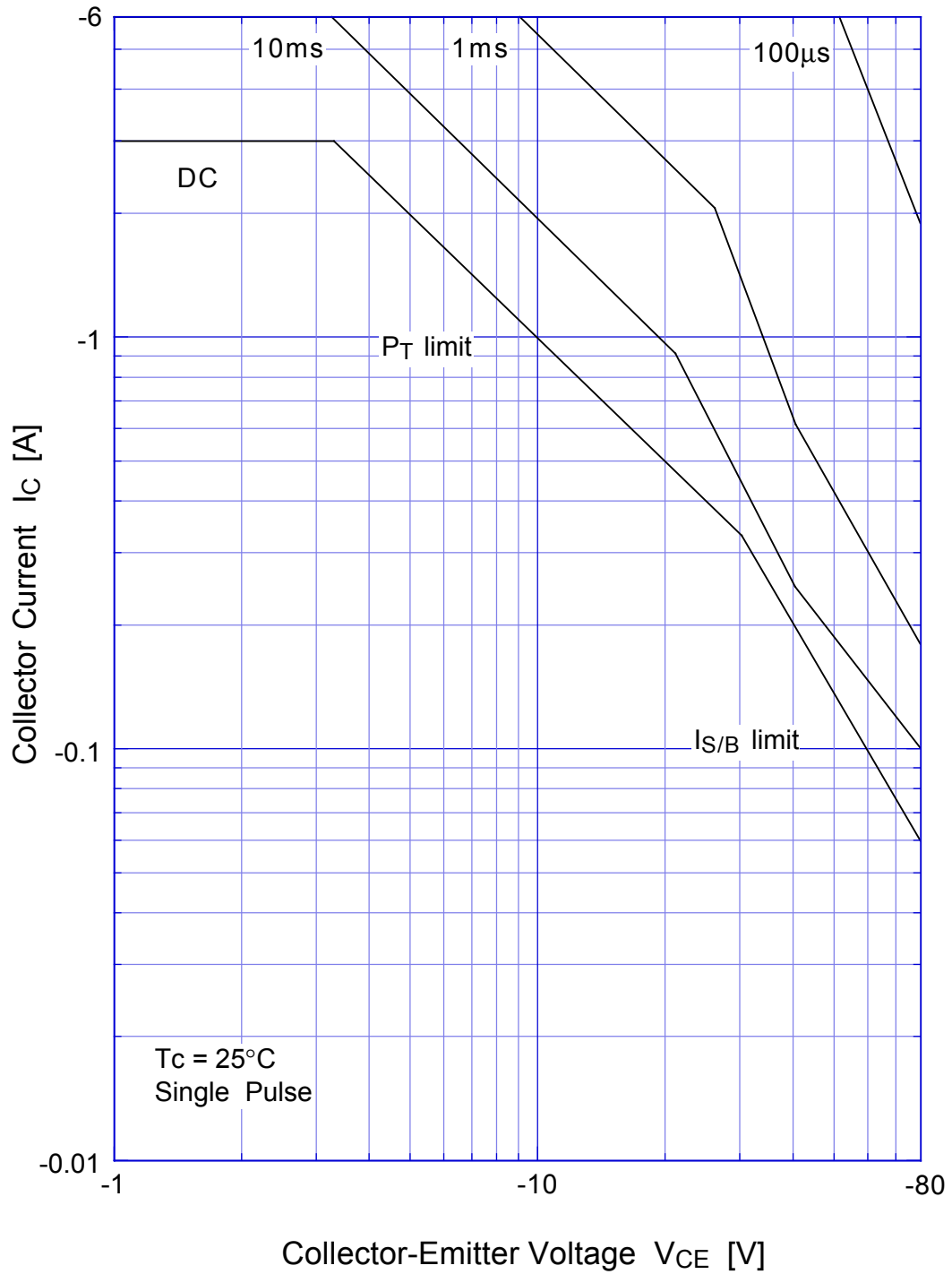
Switching Time - Tc



2SA1876 Transient Thermal Impedance



2SA1876 Forward Bias SOA



2SA1876 Collector Current Derating

