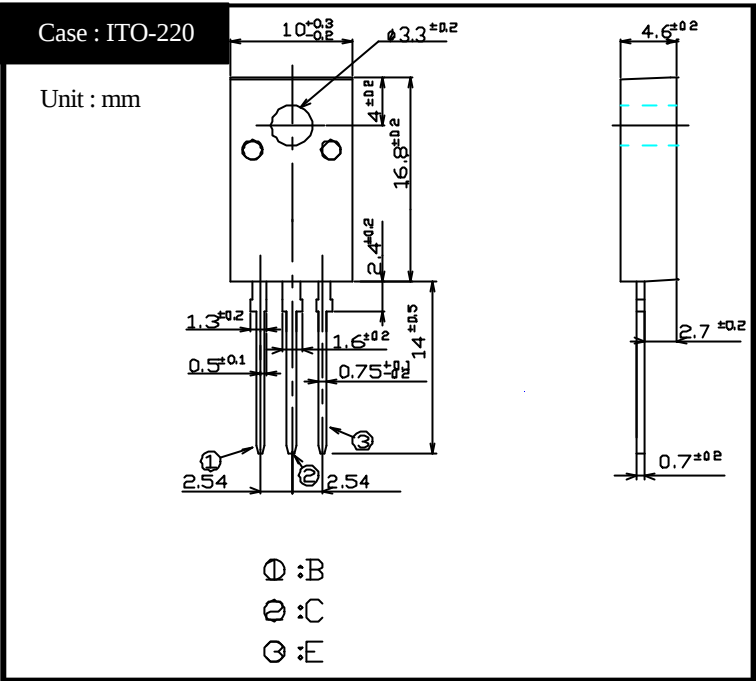


2SC4982
(TP10S8)

10A NPN

OUTLINE DIMENSIONS



RATINGS

• Absolute Maximum Ratings

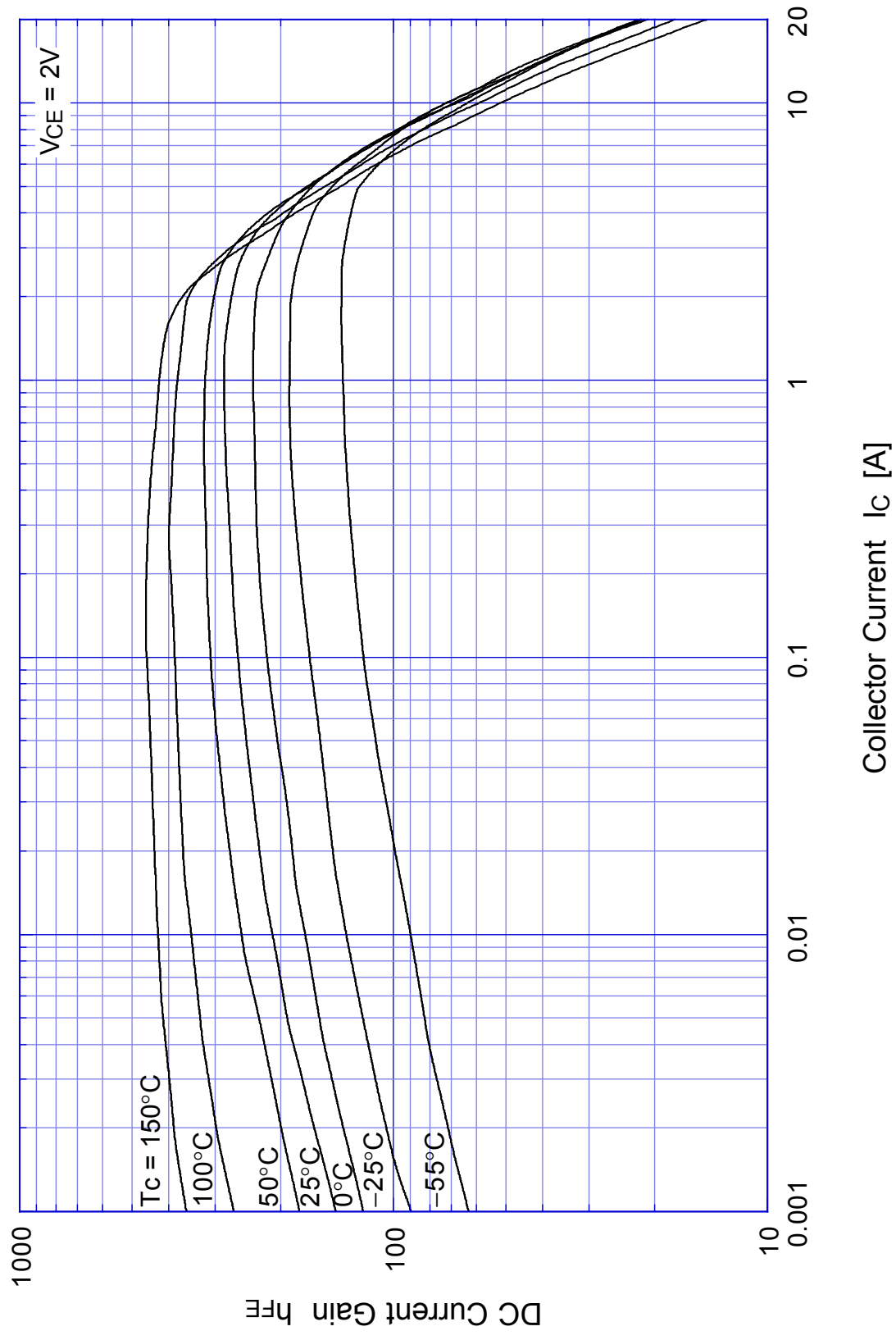
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Junction Temperature	Tj		150	
Collector to Base Voltage	V _{CBO}		100	V
Collector to Emitter Voltage	V _{CEO}		80	V
Emitter to Base Voltage	V _{EBO}		7	V
Collector Current DC	I _C		10	A
Collector Current Peak	I _{CP}		20	A
Base Current DC	I _B		1.5	A
Base Current Peak	I _{BP}		2	A
Total Transistor Dissipation	P _T	T _C = 25	25	W
Dielectric Strength	Vdis	Terminal to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.3N·m)	0.5	N·m

• Electrical Characteristics (Tc=25)

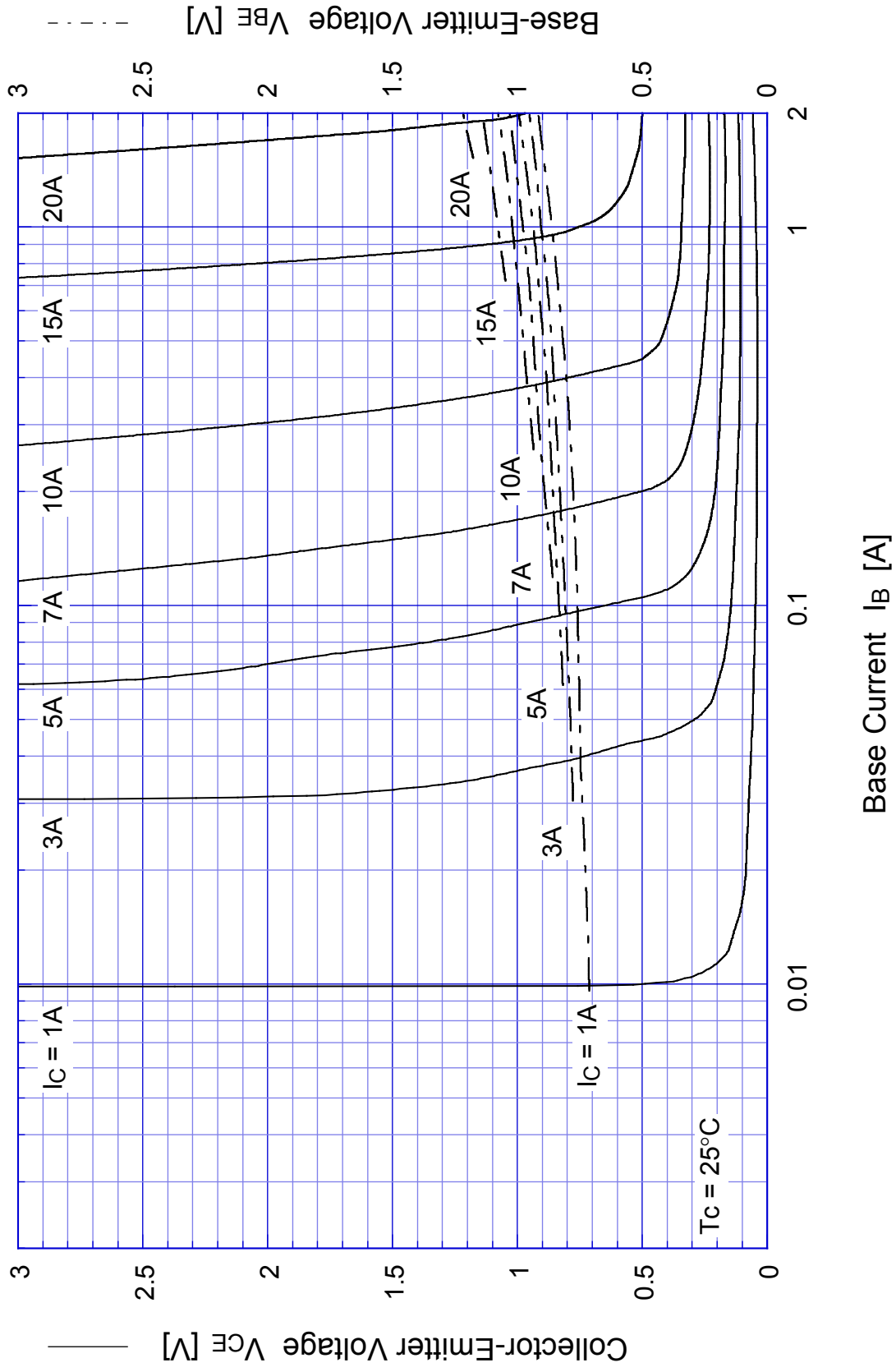
Item	Symbol	Conditions	Ratings	Unit
Collector to Emitter Sustaining Voltage	V _{CEO(sus)}	I _C = 0.1A	Min 80	V
Collector Cutoff Current	I _{CBO}	At rated Voltage	Max 0.1	mA
	I _{CEO}		Max 0.1	
Emitter Cutoff Current	I _{EBO}	At rated Voltage	Max 0.1	mA
DC Current Gain	h _{FE}	V _{CE} = 2V, I _C = 5A	Min 70	
Collector to Emitter Saturation Voltage	V _{CE(sat)}	I _C = 5A	Max 0.3	V
Base to Emitter Saturation Voltage	V _{BE(sat)}	I _B = 0.25A	Max 1.2	V
Thermal Resistance	θ _{jc}	Junction to case	Max 5	/W
Transition Frequency	f _T	V _{CE} = 10V, I _C = 1A	TYP 50	MHz
Turn on Time	ton	I _C = 5A I _{B1} = 0.5A, I _{B2} = 0.5A R _L = 5Ω, V _{BB2} = 4V	Max 0.3	μ s
Storage Time	ts		Max 1.5	
Fall Time	tf		Max 0.2	

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$h_{FE} - I_C$

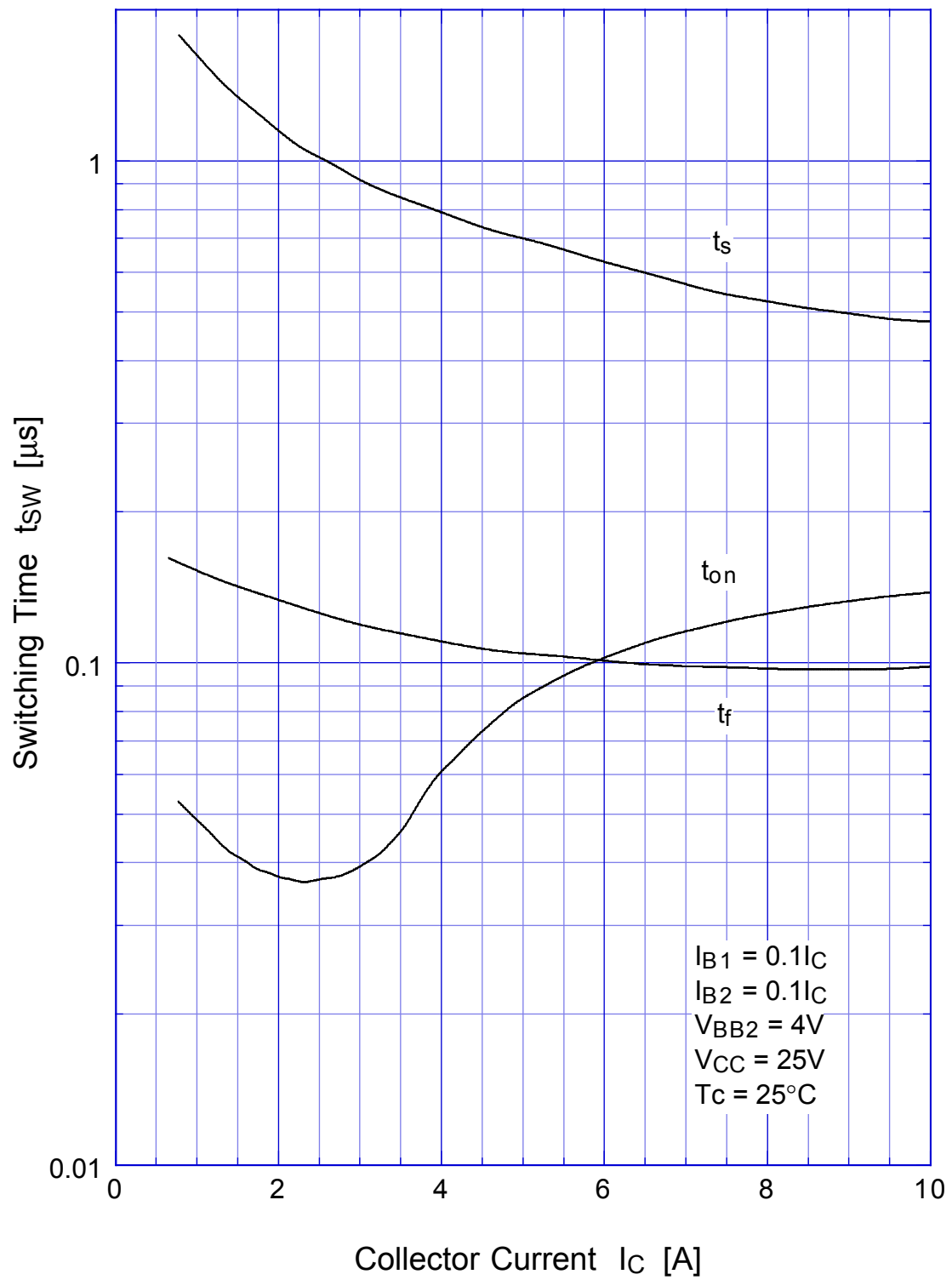


2SC4982 Saturation Voltage



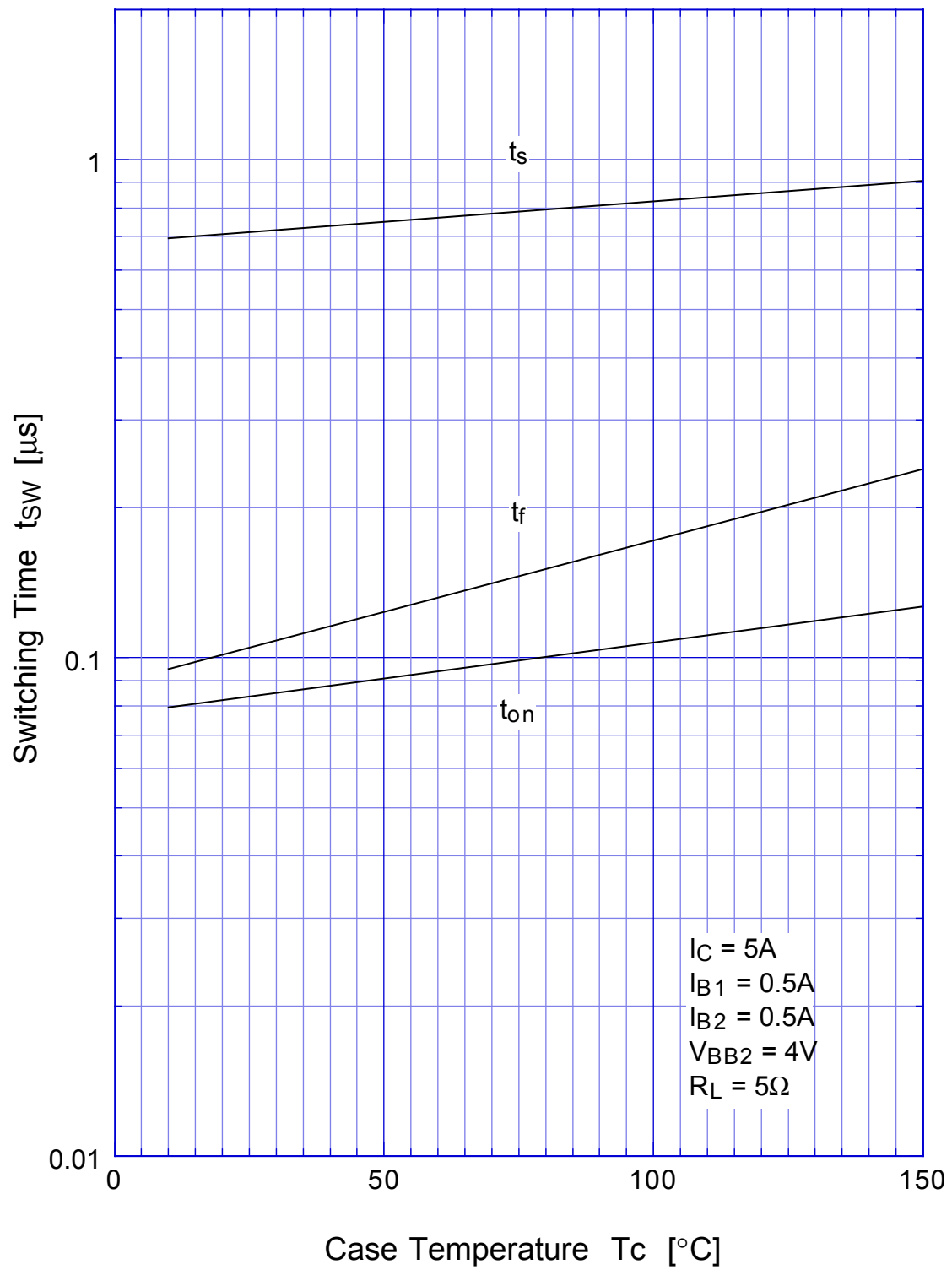
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Switching Time - I_C

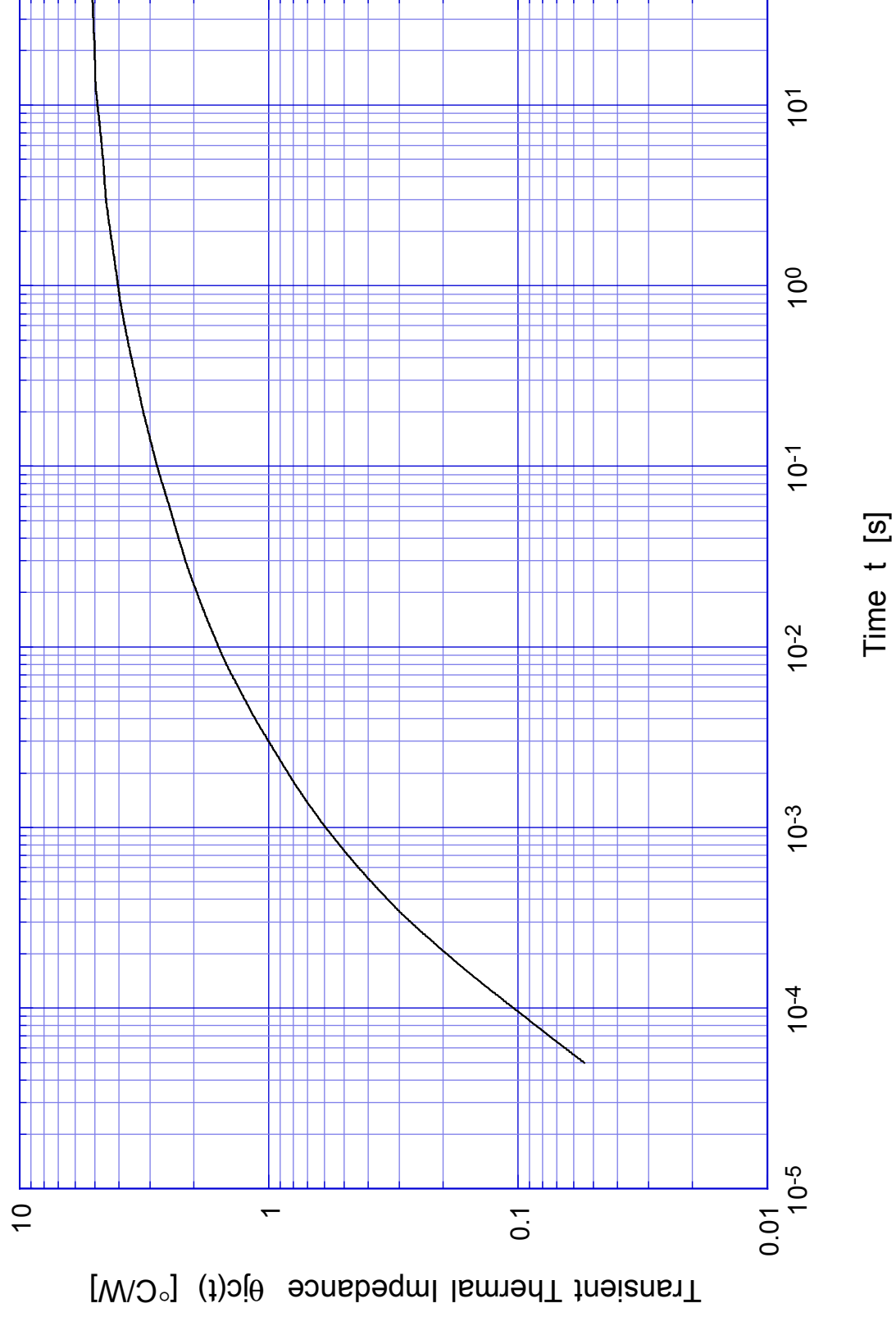


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Switching Time - T_c

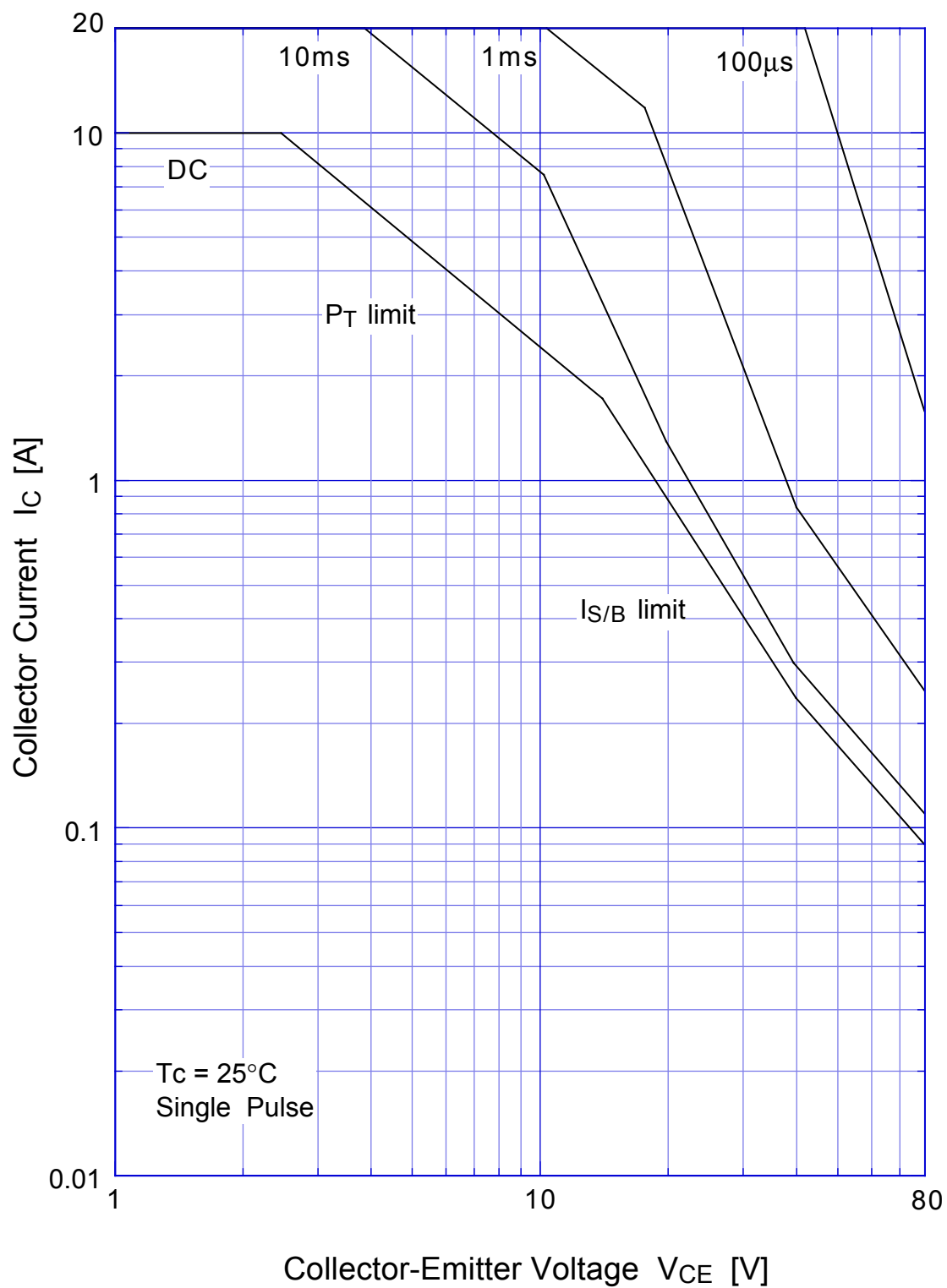


2SC4982 Transient Thermal Impedance



2SC4982

Forward Bias SOA



2SC4982 Collector Current Derating

