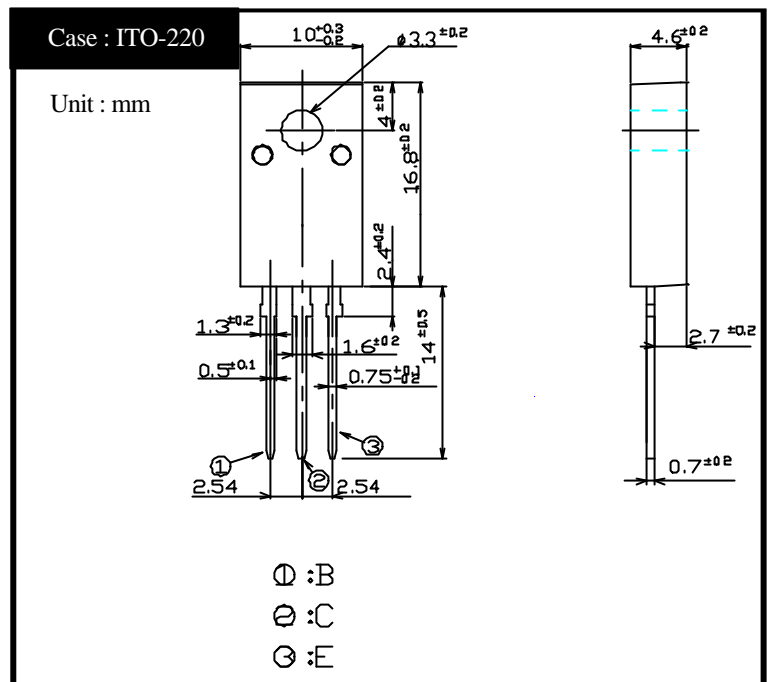


2SC4980
(TP5S8)

5A NPN

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings

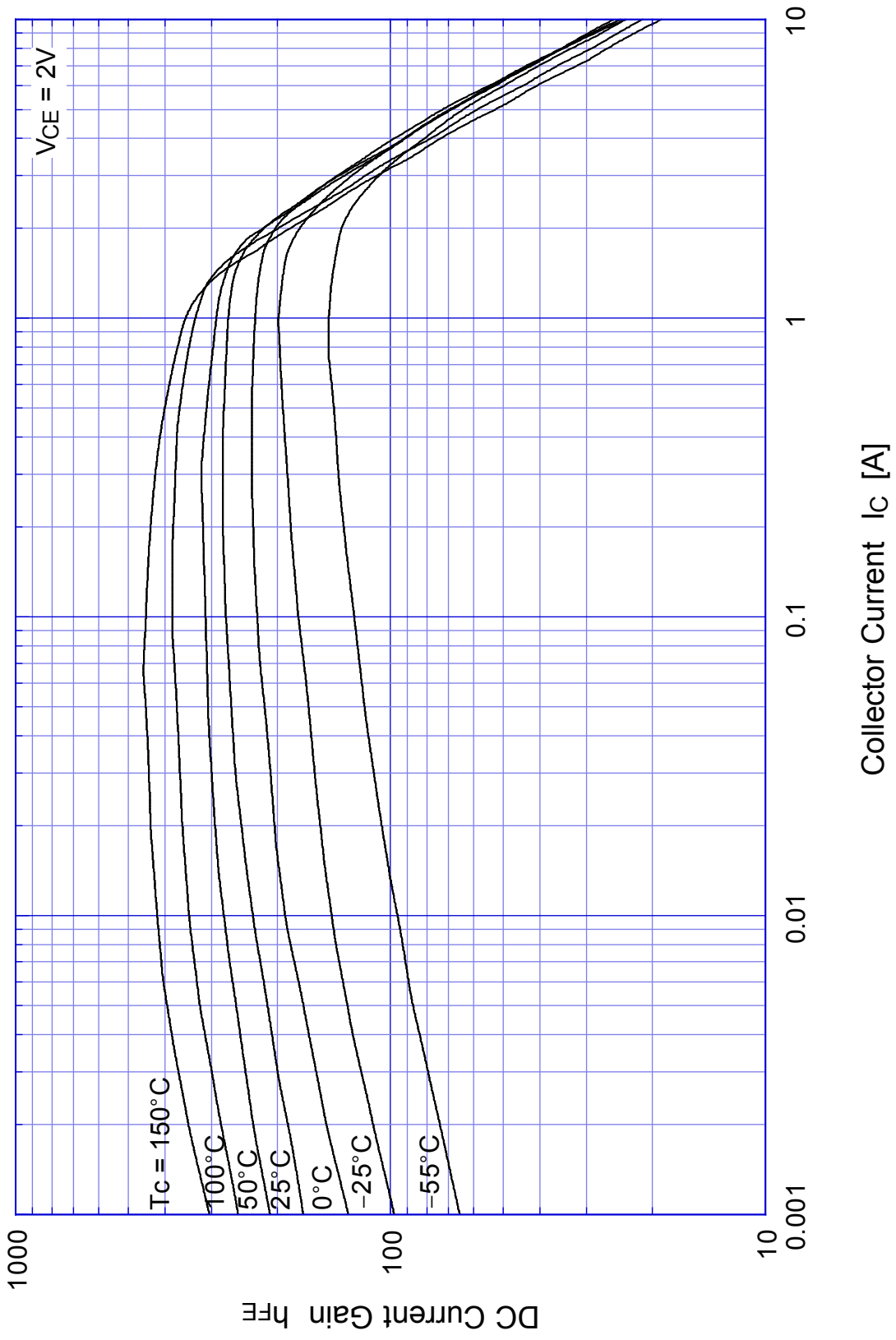
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55 ~ 150	
Junction Temperature	T _j		150	
Collector to Base Voltage	V _{CB0}		100	V
Collector to Emitter Voltage	V _{CEO}		80	V
Emitter to Base Voltage	V _{EBO}		7	V
Collector Current DC	I _C		5	A
Collector Current Peak	I _{CP}		10	A
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	V _{dis}	Terminal to case, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.3N·m)	0.5	N·m

Electrical Characteristics (T_c=25)

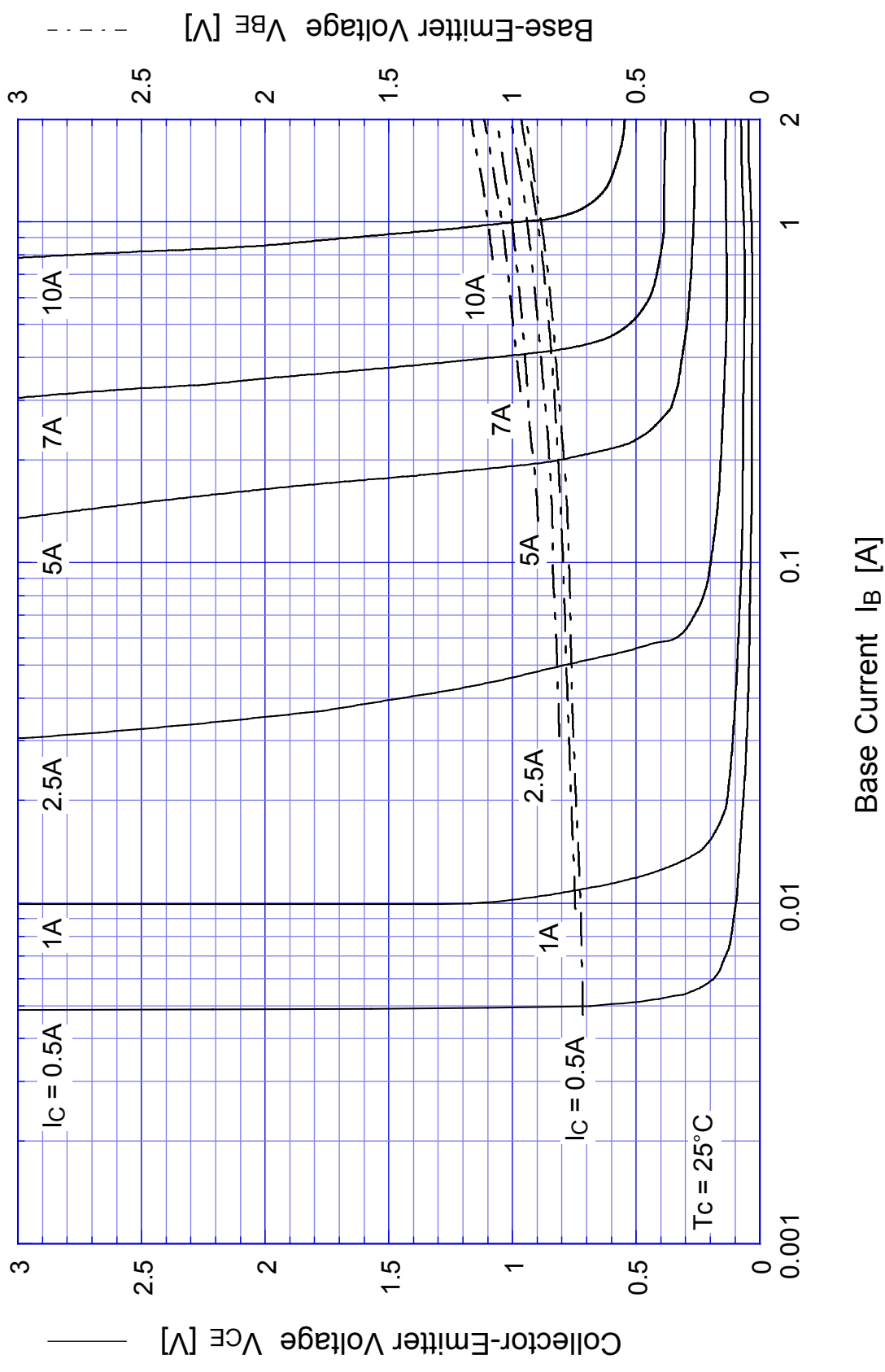
Item	Symbol	Conditions	Ratings	Unit
Collector to Emitter Sustaining Voltage	V _{CEO(sus)}	I _C = 0.05A	Min 80	V
Collector Cutoff Current	I _{CB0}	At rated Voltage	Max 0.1	mA
	I _{CEO}		Max 0.1	
Emitter Cutoff Current	I _{EBO}	At rated Voltage	Max 0.1	mA
DC Current Gain	h _{FE}	V _{CE} = 2V, I _C = 2.5A	Min 70	
Collector to Emitter Saturation Voltage	V _{CE(sat)}	I _C = 2.5A	Max 0.3	V
Base to Emitter Saturation Voltage	V _{BE(sat)}	I _B = 0.13A	Max 1.2	V
Thermal Resistance	θ _{jc}	Junction to case	Max 5	/W
Transition Frequency	f _T	V _{CE} = 10V, I _C = 0.5A	TYP 50	MHz
Turn on Time	t _{on}	I _C = 2.5A I _{B1} = 0.25A, I _{B2} = 0.25A R _L = 12 Ω, V _{BB2} = 4V	Max 0.3	μs
Storage Time	t _s		Max 1.5	
Fall Time	t _f		Max 0.2	

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$h_{FE} - I_C$

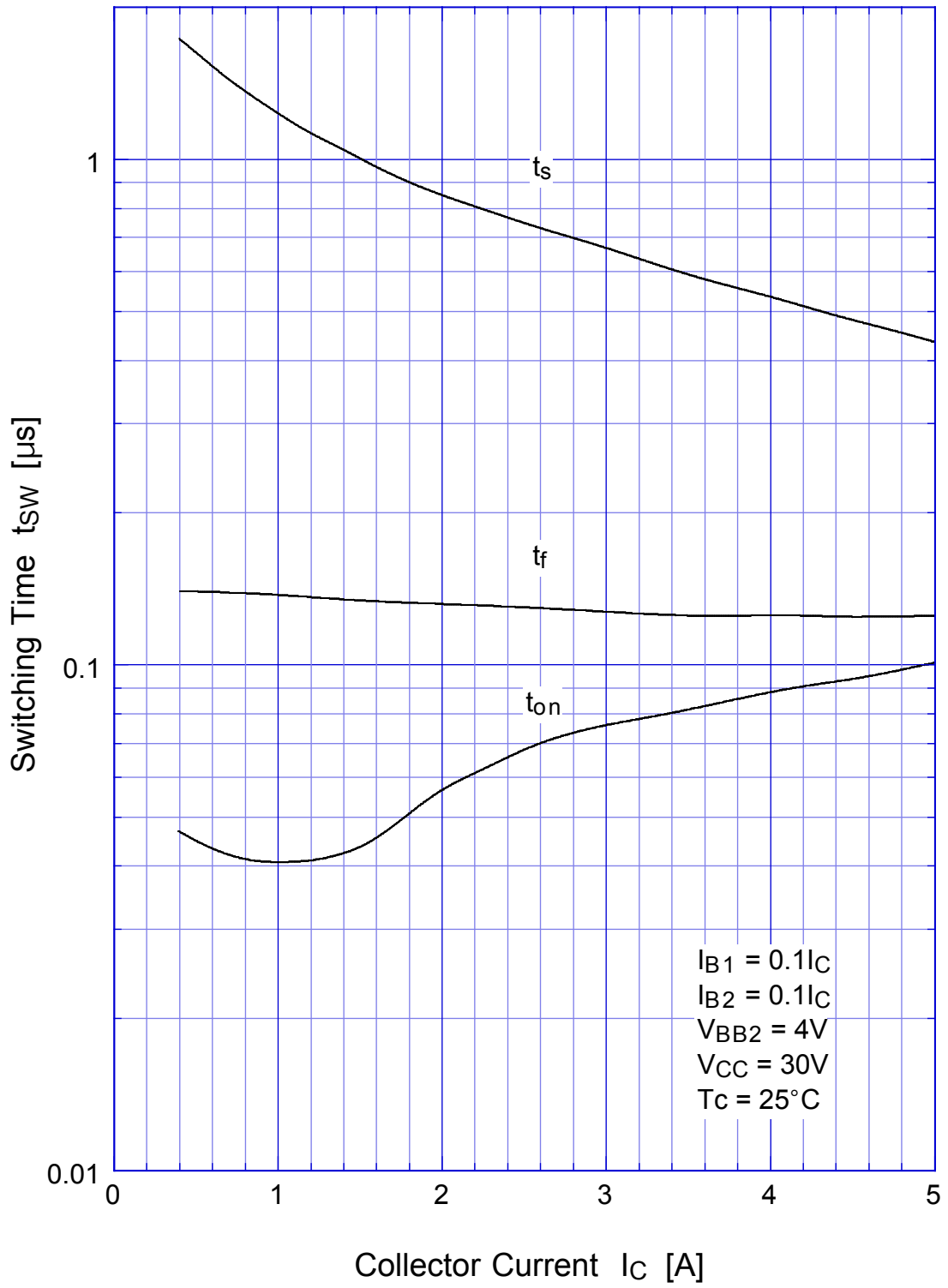


2SC4980 Saturation Voltage



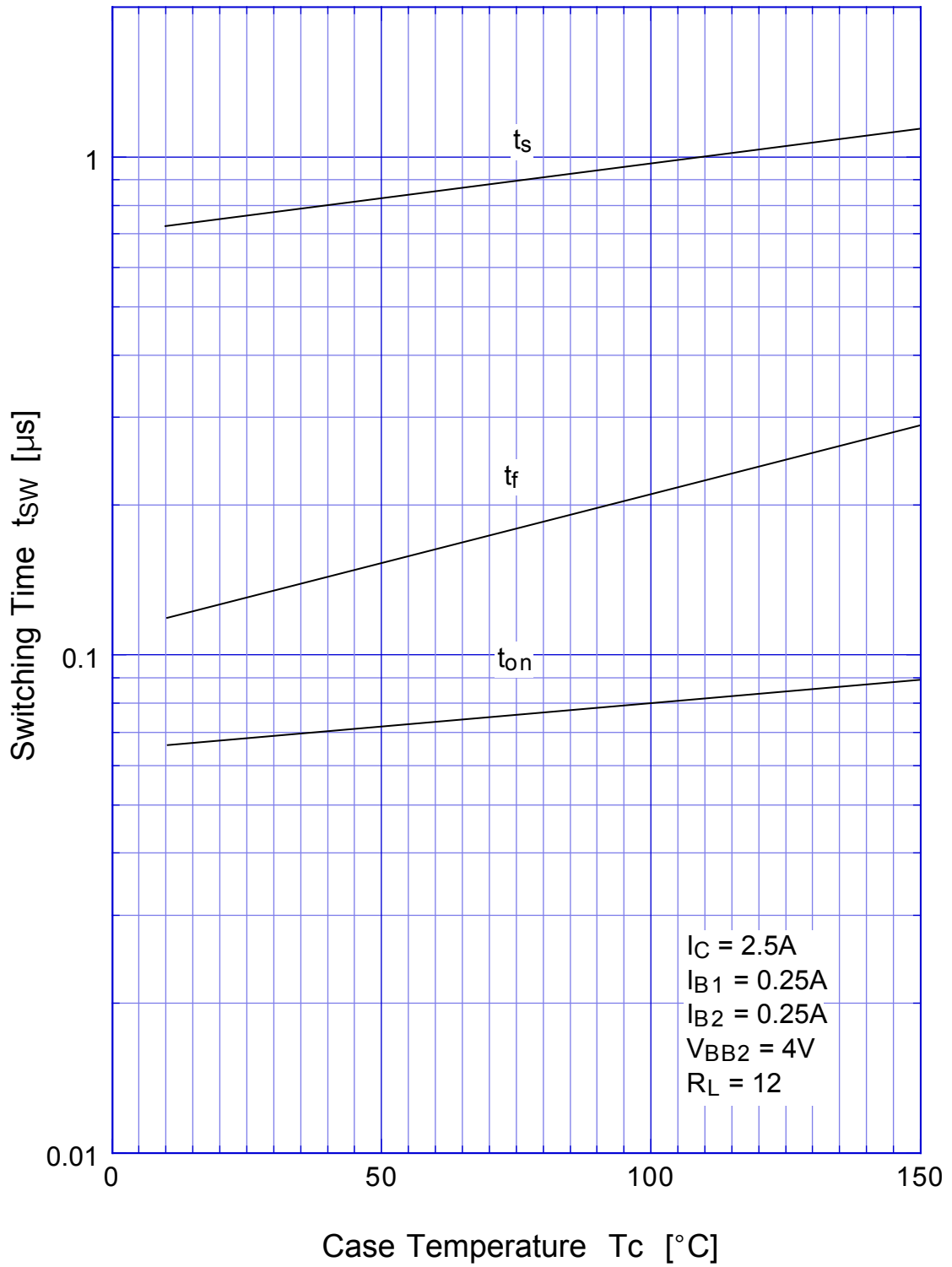
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Switching Time - I_C

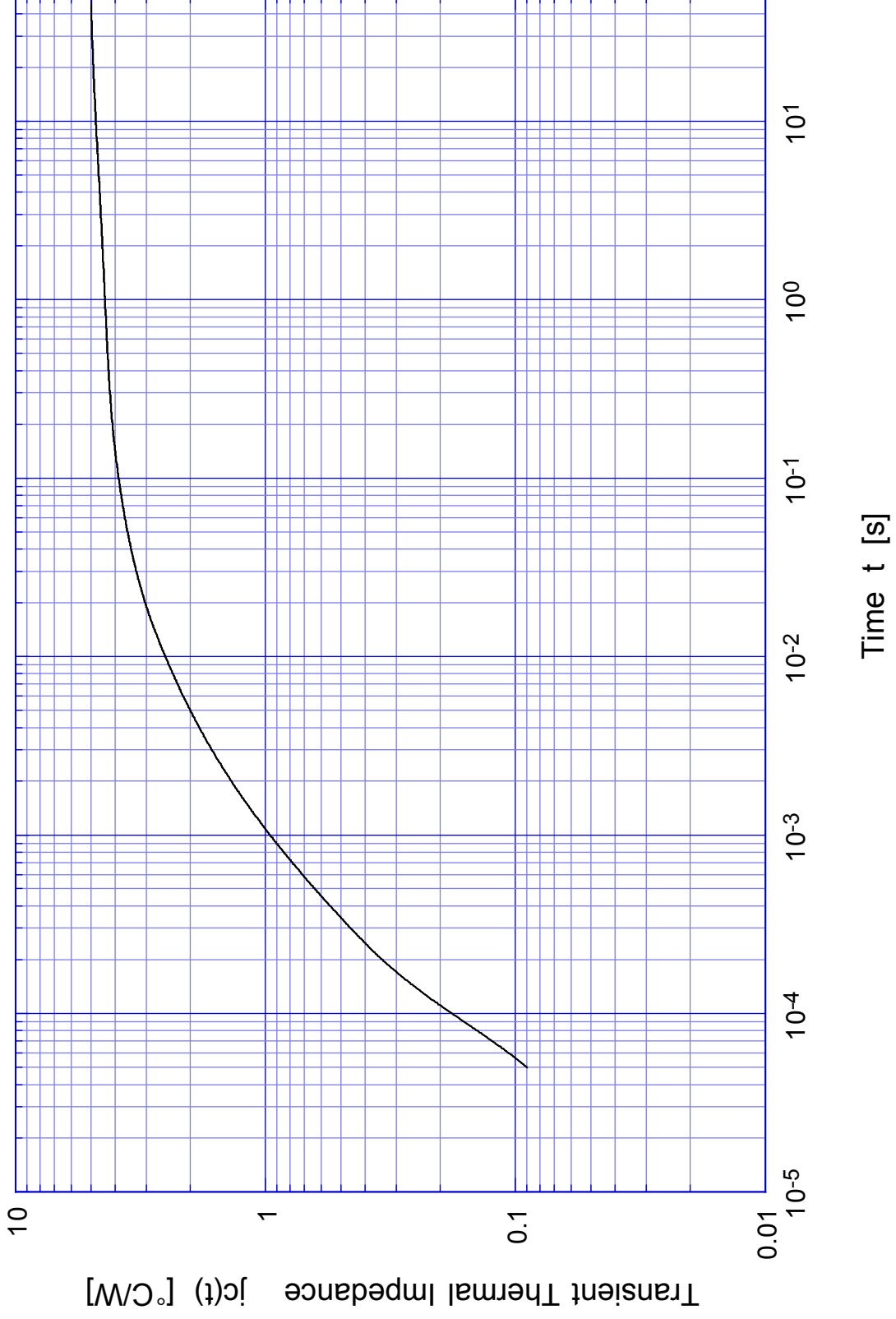


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Switching Time - Tc

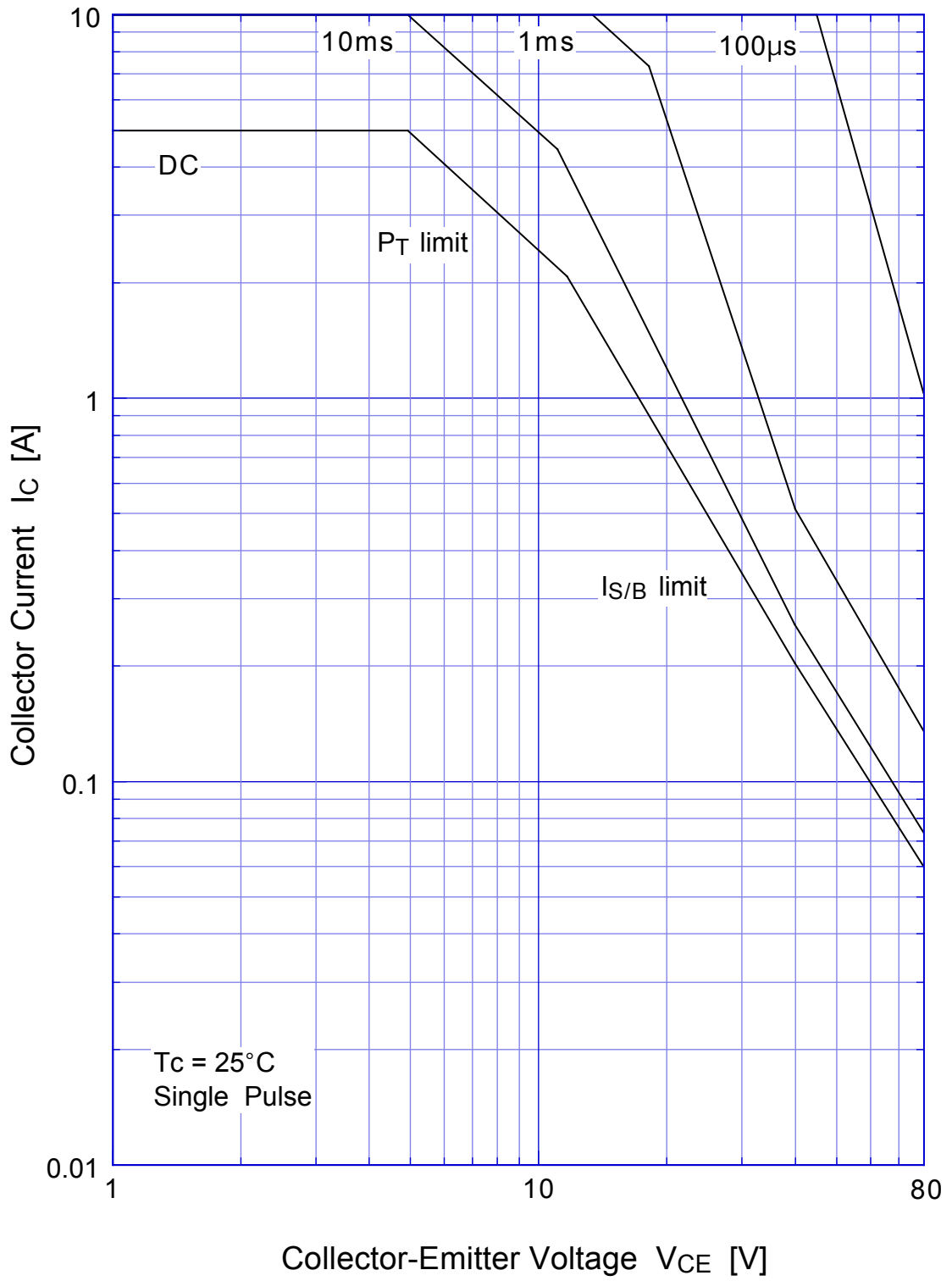


2SC4980 Transient Thermal Impedance



2SC4980

Forward Bias SOA



2SC4980 Collector Current Derating

