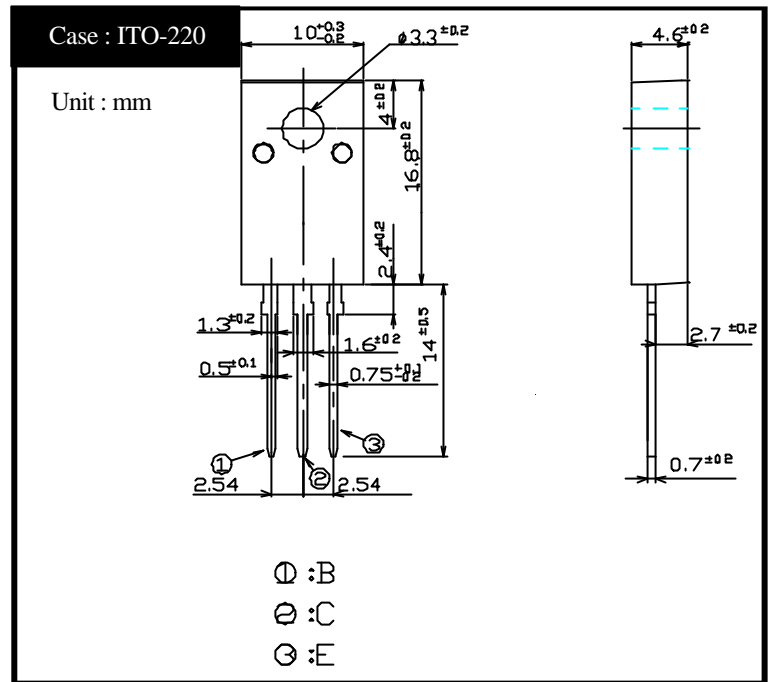


2SC4234
(TP3V80HFX)

3A NPN

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings

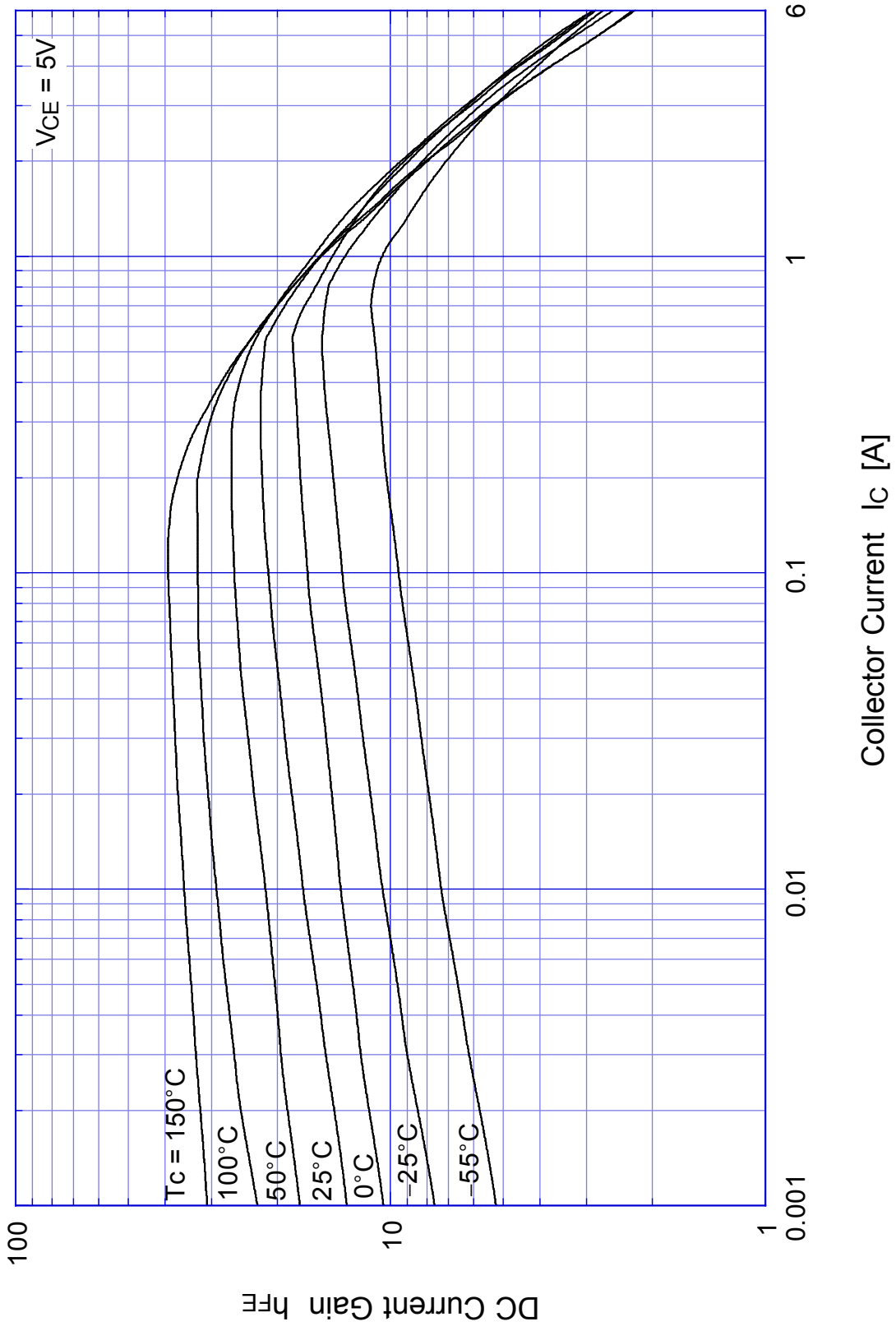
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T _{stg}		-55 ~ 150	
Junction Temperature	T _j		150	
Collector to Base Voltage	V _{CBO}		1200	V
Collector to Emitter Voltage	V _{CEO}		800	V
Emitter to Base Voltage	V _{EBO}		7	V
Collector Current DC	I _C		3	A
Collector Current Peak	I _{CP}		6	
Base Current DC	I _B		1	A
Base Current Peak	I _{BP}		2	
Total Transistor Dissipation	P _T	T _C = 25	45	W
Dielectric Strength	V _{dis}	Terminals to cased, AC 1 minute	2	kV
Mounting Torque	TOR	(Recommended torque : 0.3N·m)	0.5	N·m

Electrical Characteristics (T_C=25)

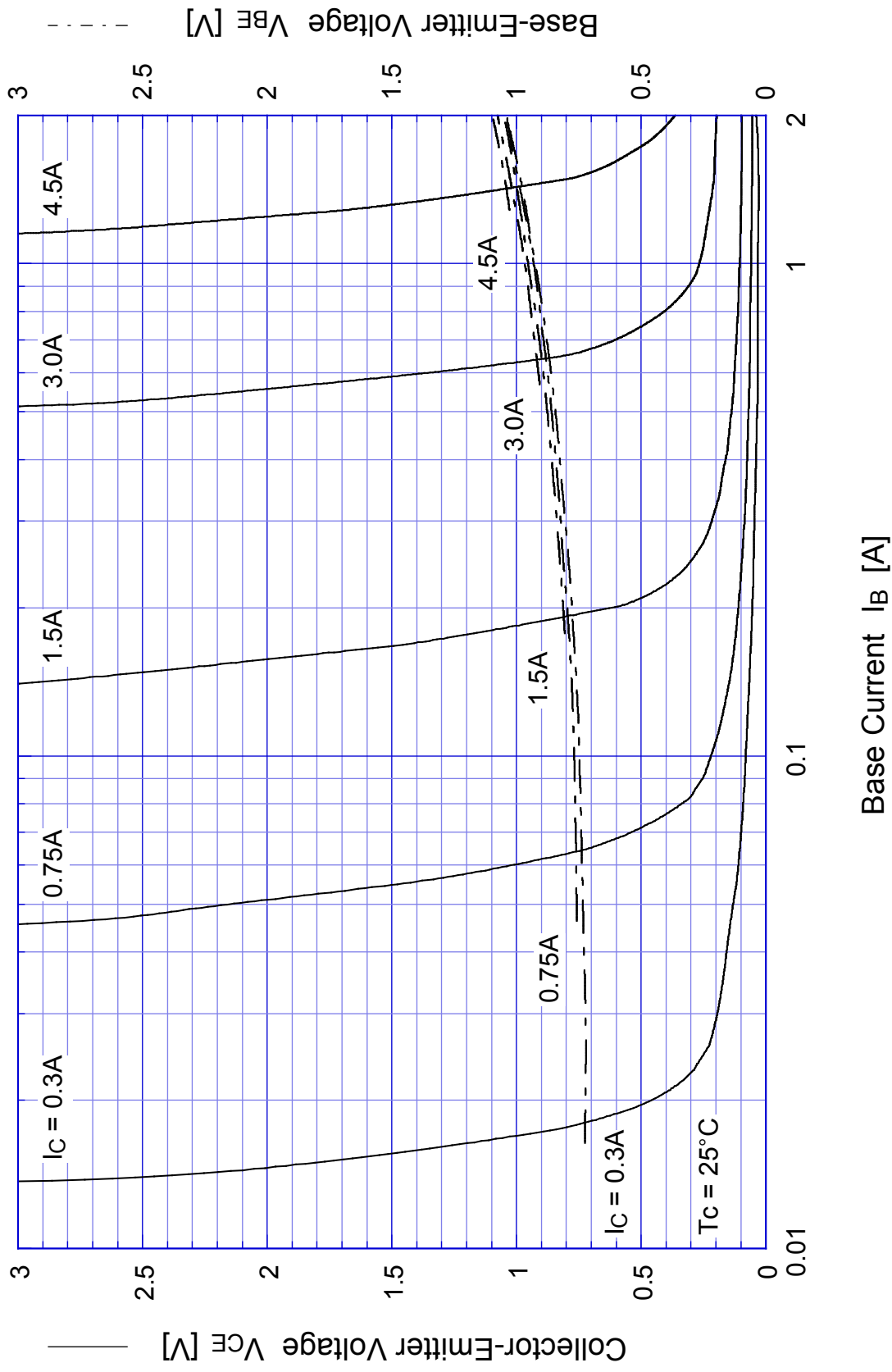
Item	Symbol	Conditions	Ratings	Unit
Collector to Emitter Sustaining Voltage	V _{CEO(sus)}	I _C = 0.1A	Min 800	V
Collector Cutoff Current	I _{CBO}	At rated Voltage	Max 0.1	mA
	I _{CEO}		Max 0.1	
Emitter Cutoff Current	I _{EBO}	At rated Voltage	Max 0.1	mA
DC Current Gain	h _{FE}	V _{CE} = 5V, I _C = 1.5A	Min 8	
	h _{FEL}	V _{CE} = 5V, I _C = 1mA	Min 7	
Collector to Emitter Saturation Voltage	V _{CE(sat)}	I _C = 1.5A	Max 1.0	V
Base to Emitter Saturation Voltage	V _{BE(sat)}	I _B = 0.3A	Max 1.5	V
Thermal Resistance	θ _{JC}	Junction to case	Max 2.77	/W
Transition Frequency	f _T	V _{CE} = 10V, I _C = 0.3A	TYP 8	MHz
Turn on Time	t _{on}	I _C = 1.5A	Max 0.5	μs
Storage Time	t _s	I _{B1} = 0.3A, I _{B2} = 0.6A	Max 3.5	
Fall Time	t _f	R _L = 170 Ω, V _{BB2} = 4V	Max 0.3	

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$h_{FE} - I_c$

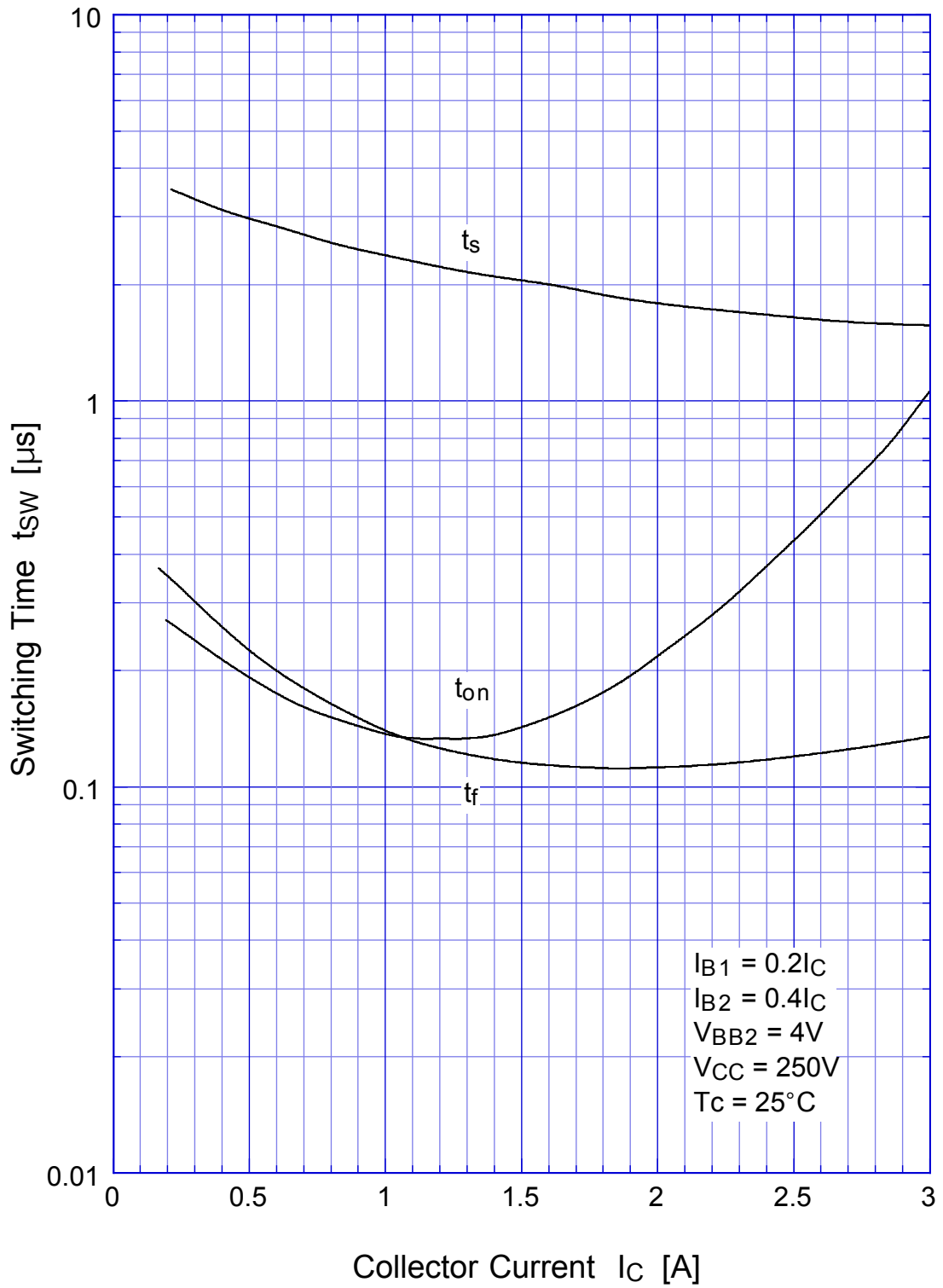


2SC4234 Saturation Voltage

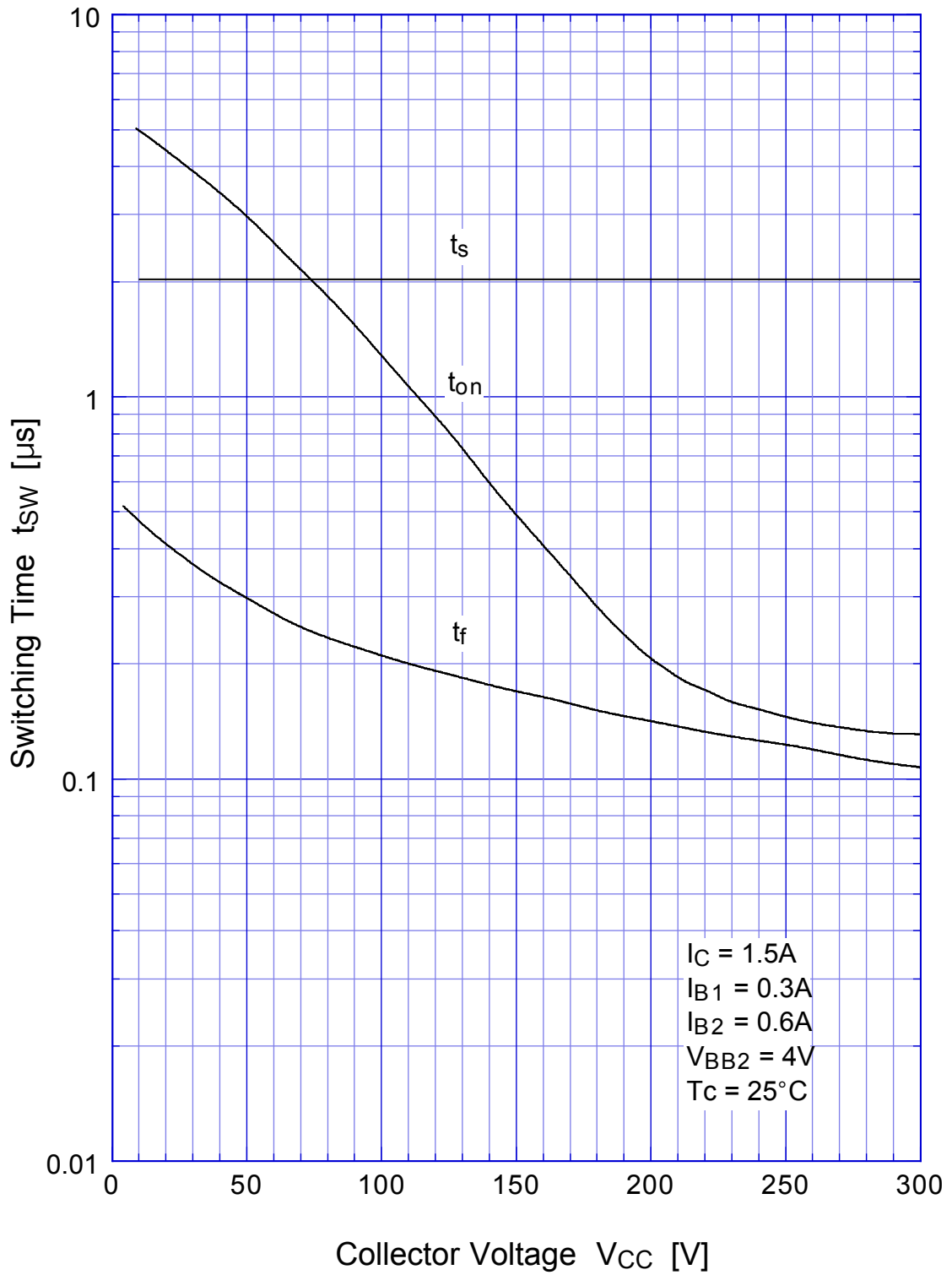


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Switching Time - I_C

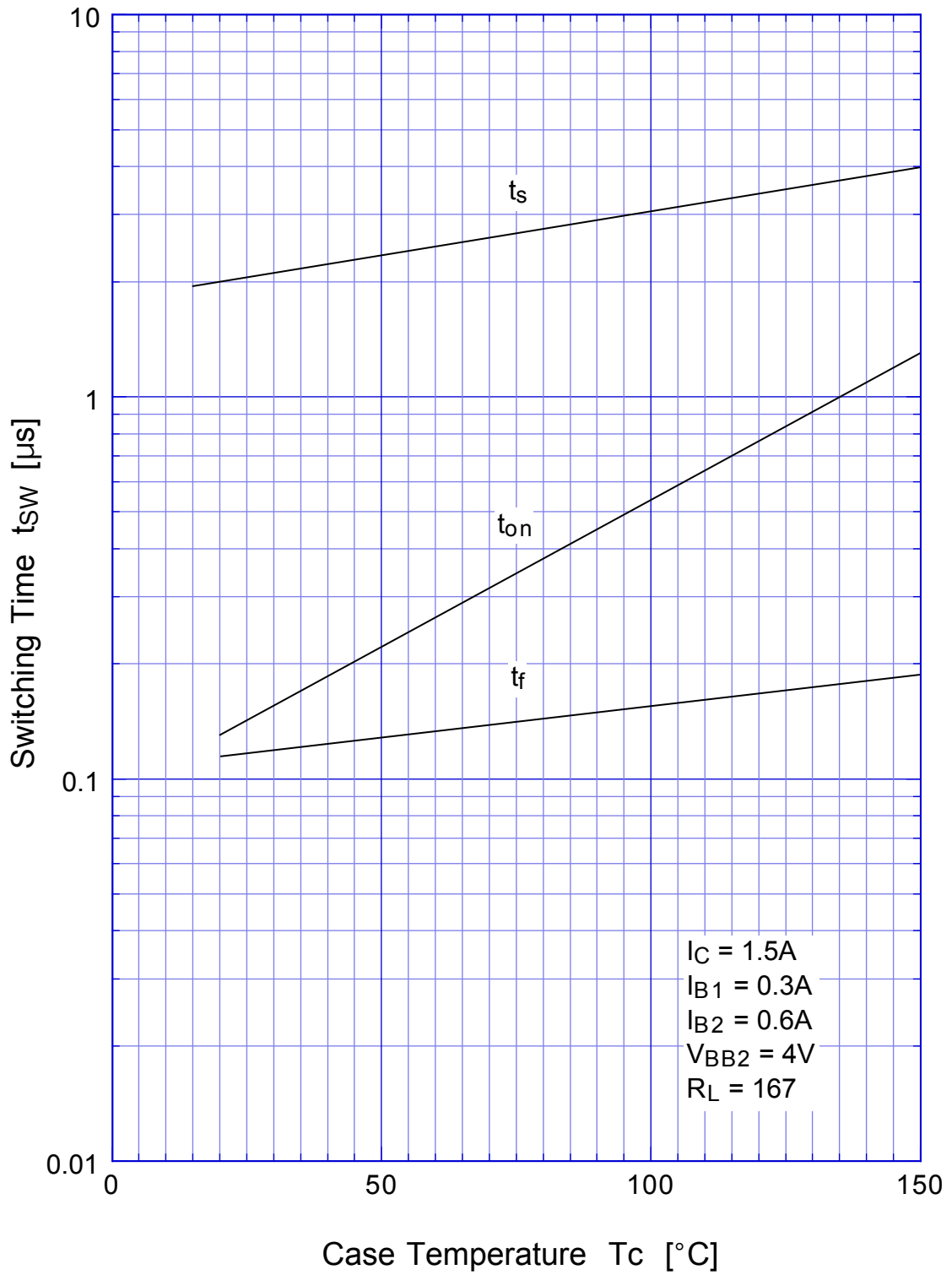


2SC4234 Switching Time - V_{CC}

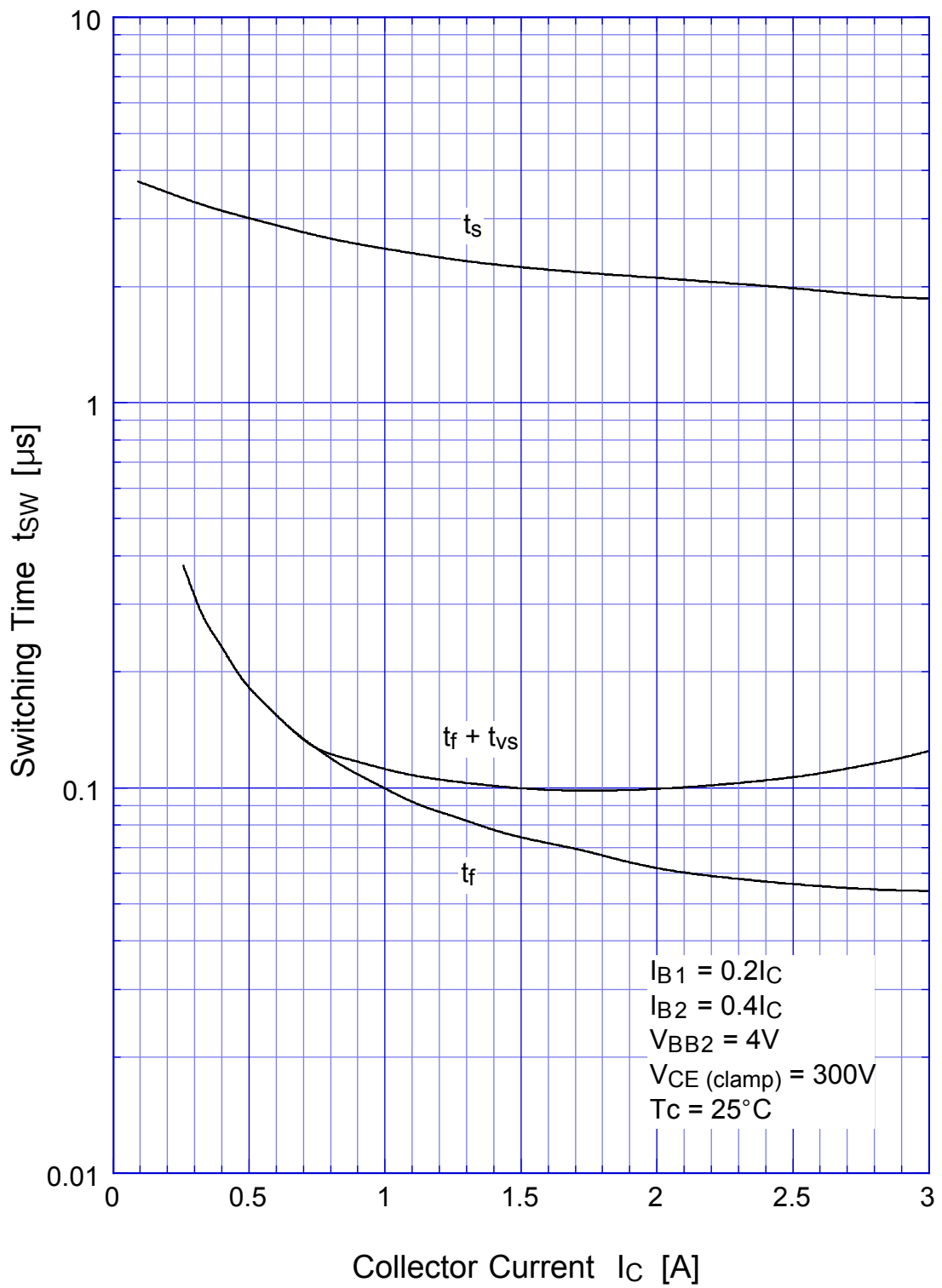


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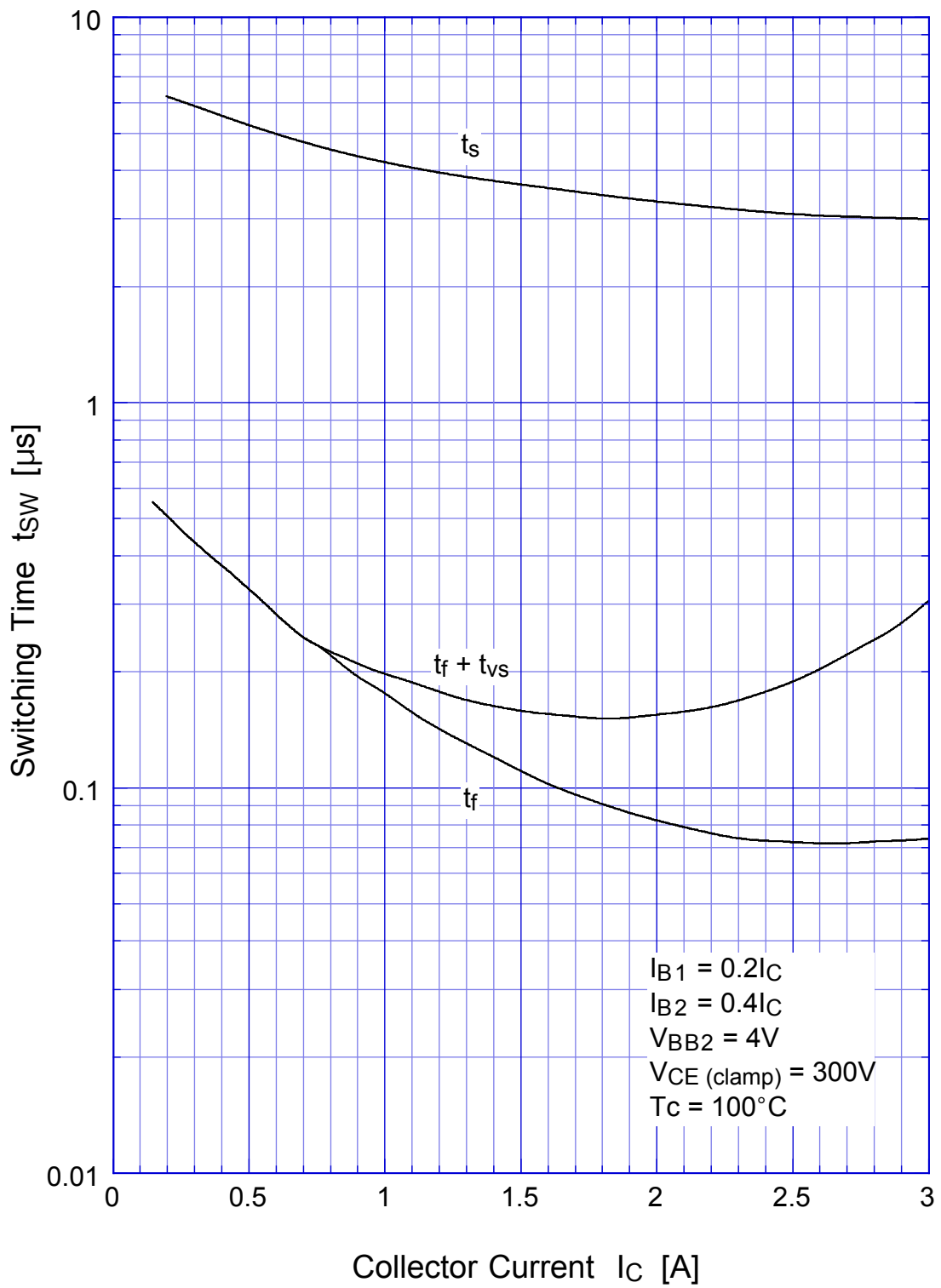
Switching Time - Tc



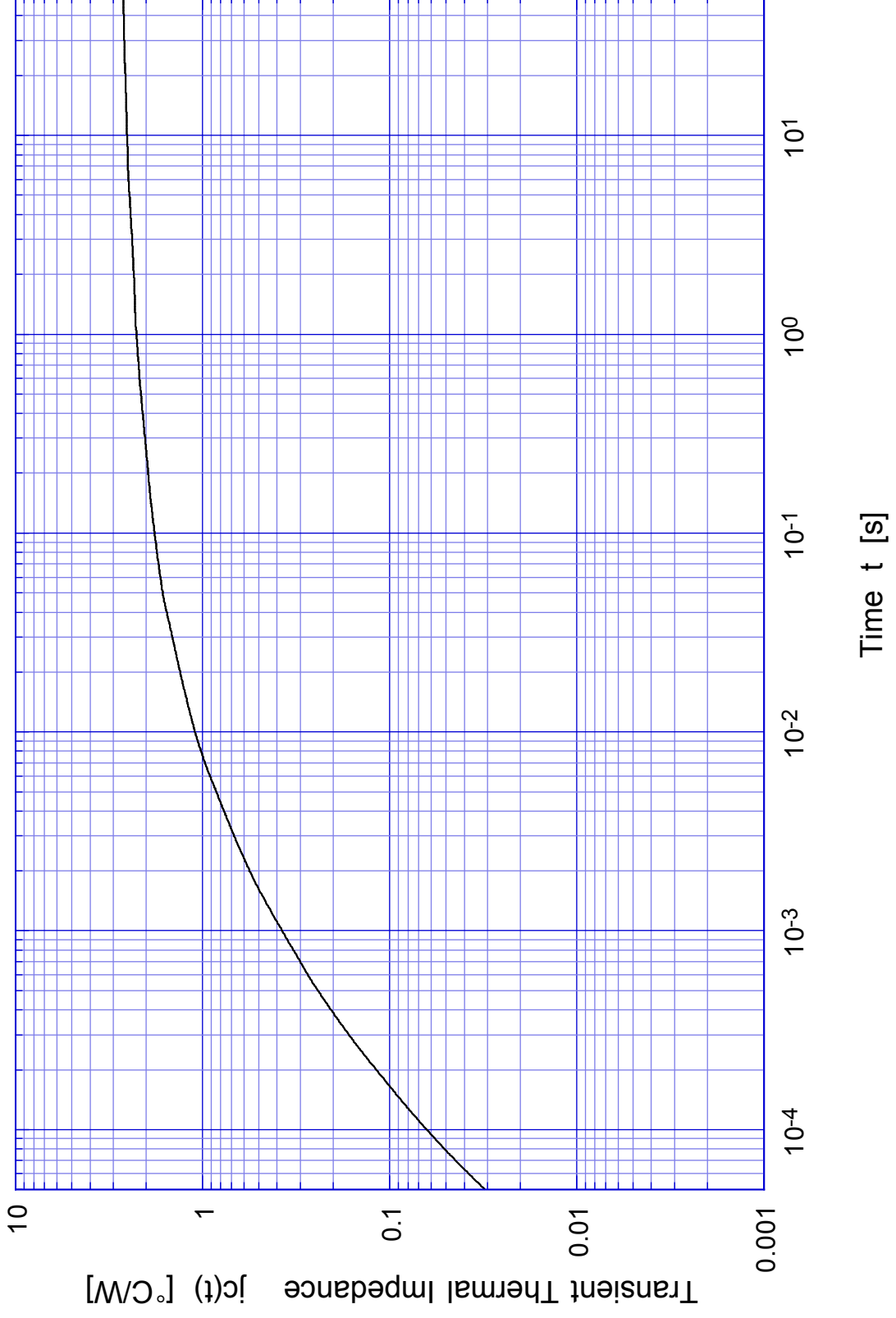
2SC4234 L-Load Switching Time - I_C



2SC4234 L-Load Switching Time - I_C (At High Temperature)

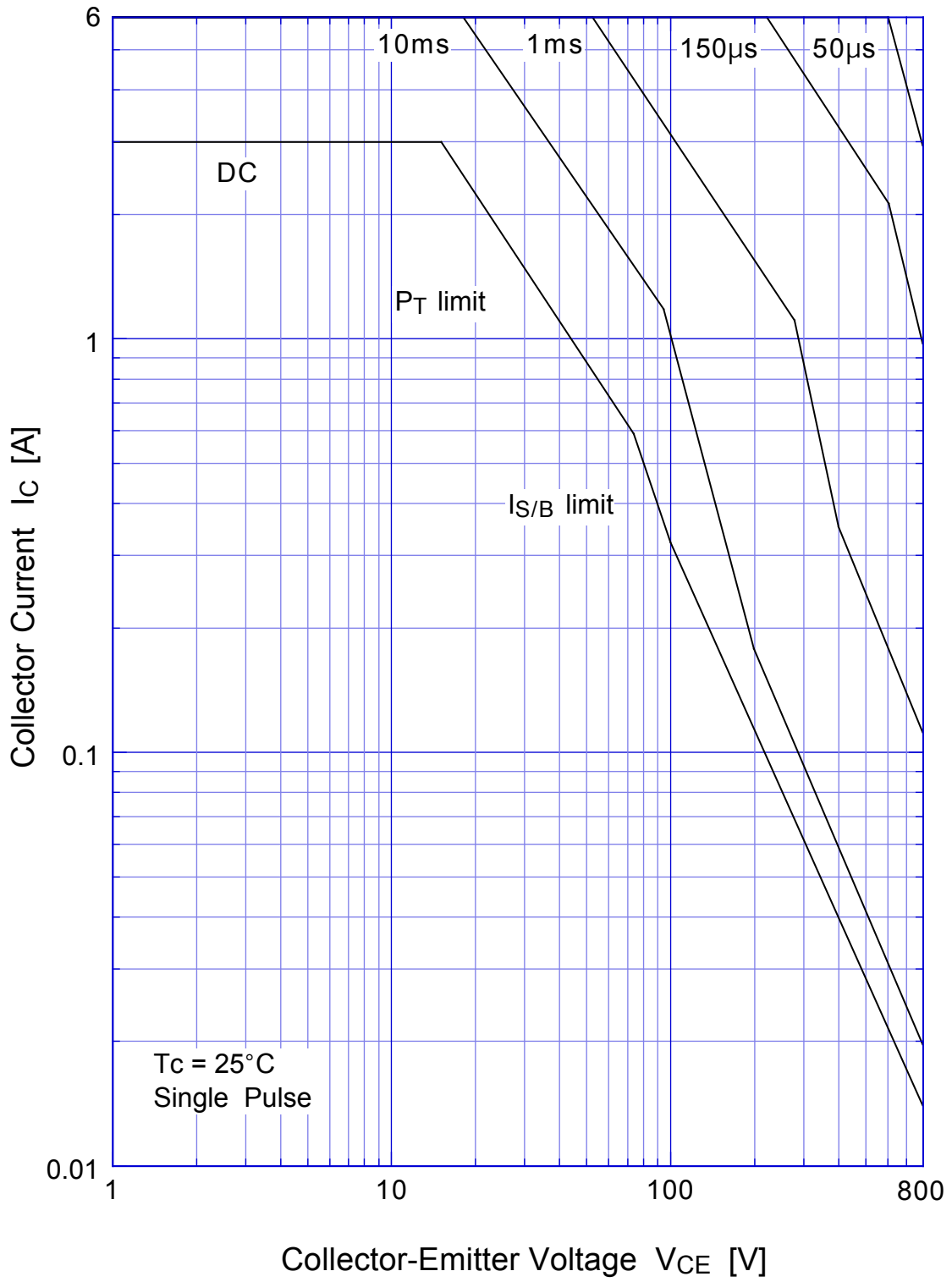


2SC4234 Transient Thermal Impedance

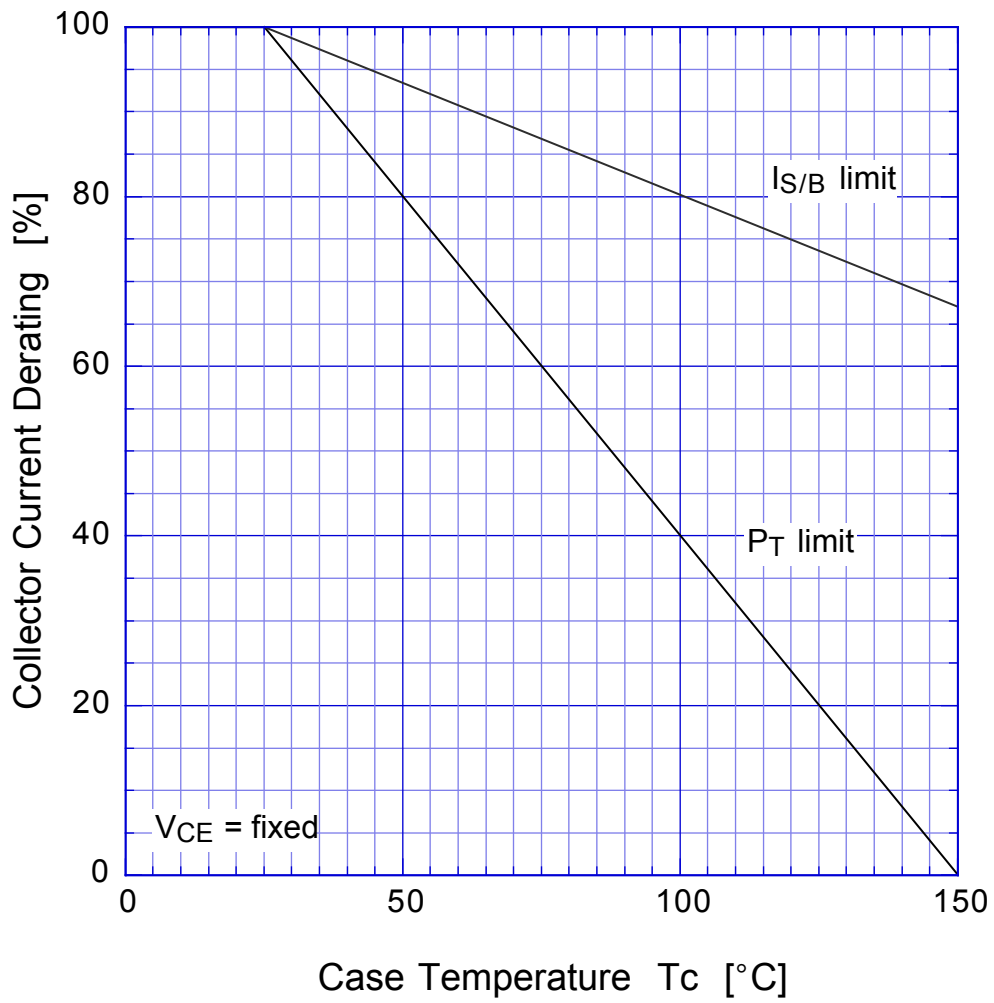


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Forward Bias SOA

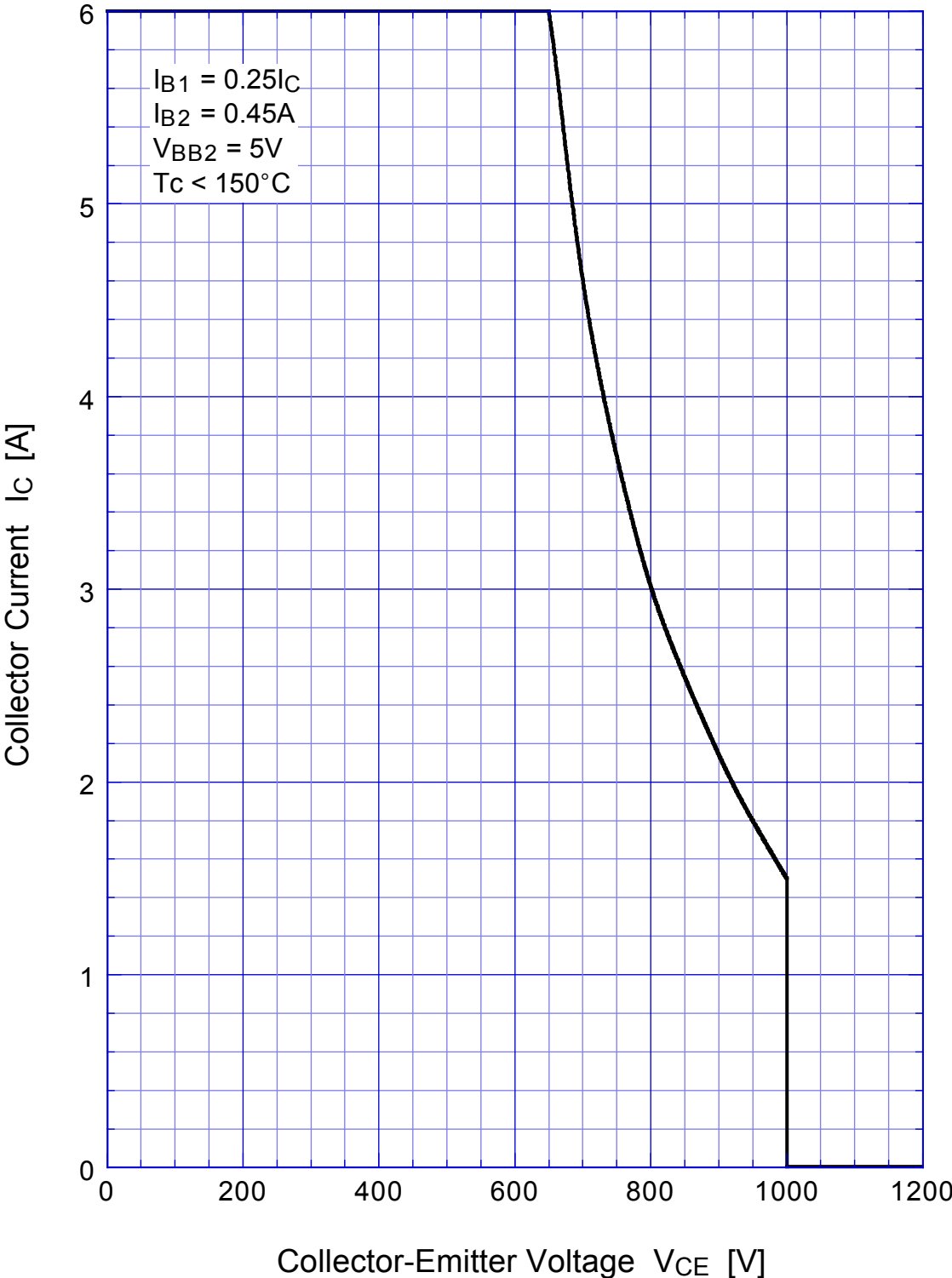


2SC4234 Collector Current Derating



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Reverse Bias SOA



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