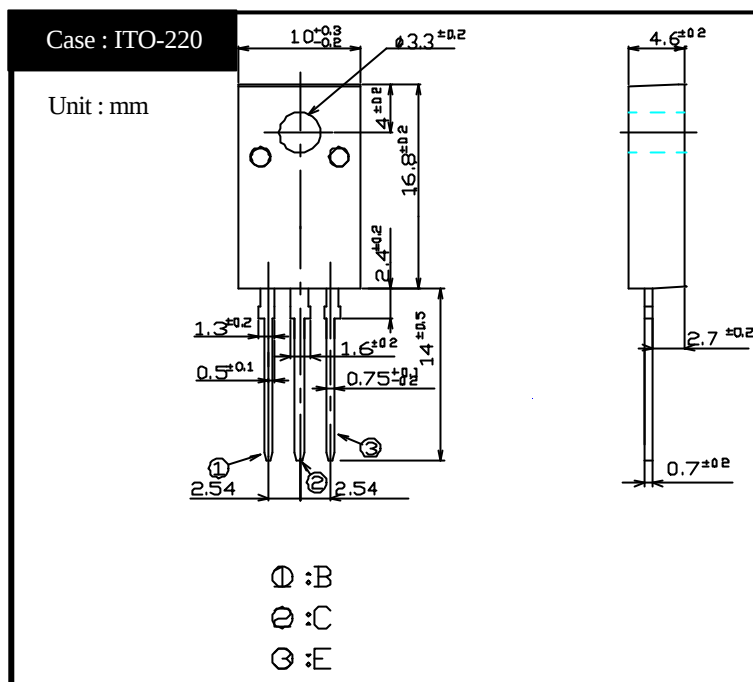


2SA1879
(TP7T8)

-7A PNP

OUTLINE DIMENSIONS



RATINGS

- Absolute Maximum Ratings

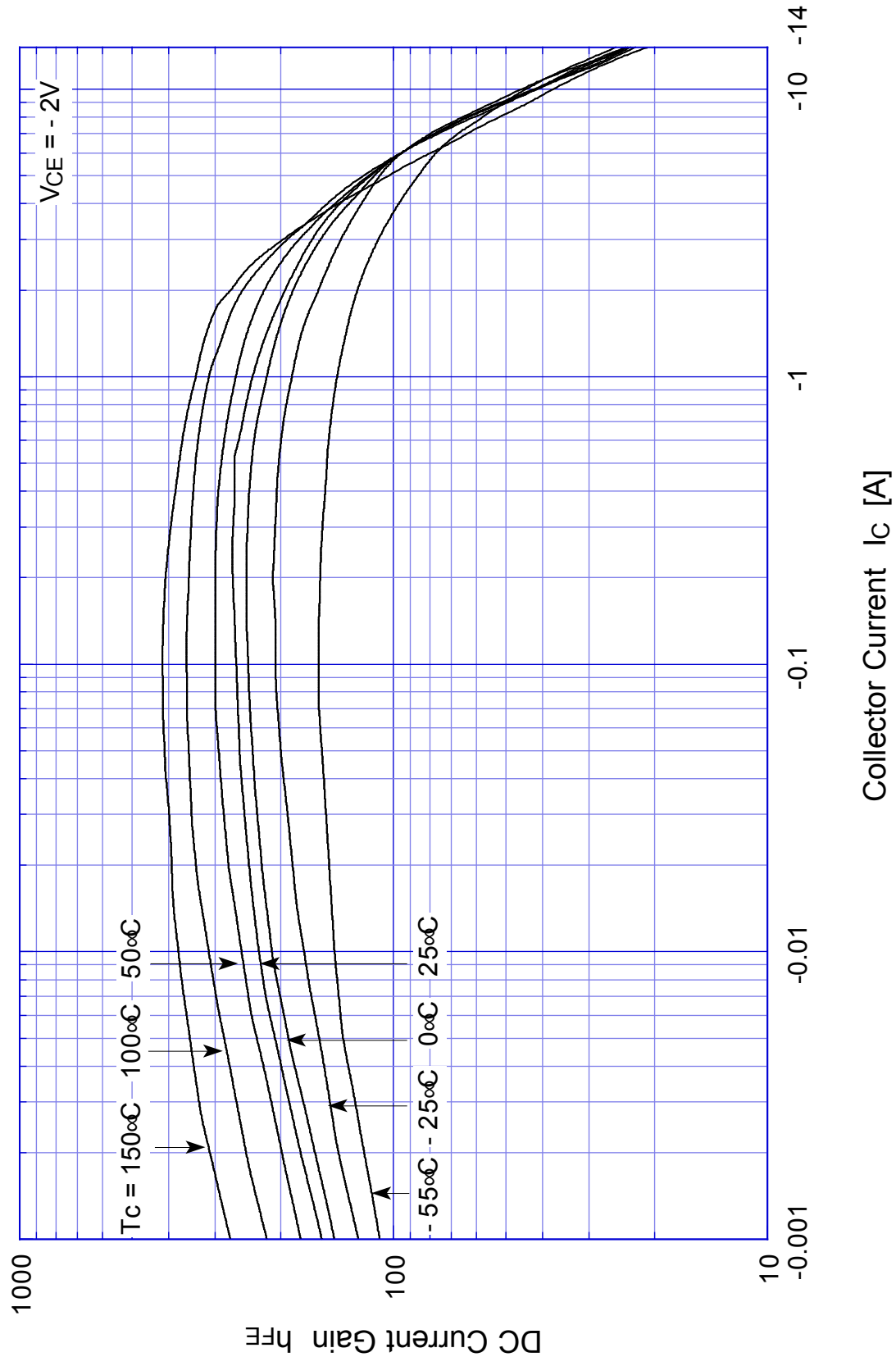
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Junction Temperature	Tj		150	
Collector to Base Voltage	V _{CBO}		-80	V
Collector to Emitter Voltage	V _{CEO}		-80	V
Emitter to Base Voltage	V _{EBO}		-7	V
Collector Current DC	I _C		-7	A
Collector Current Peak	I _{CP}		-14	A
Base Current DC	I _B		-1.5	A
Base Current Peak	I _{BP}		-2	A
Total Transistor Dissipation	P _T	Tc = 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 ($T_c=25^\circ\text{C}$)

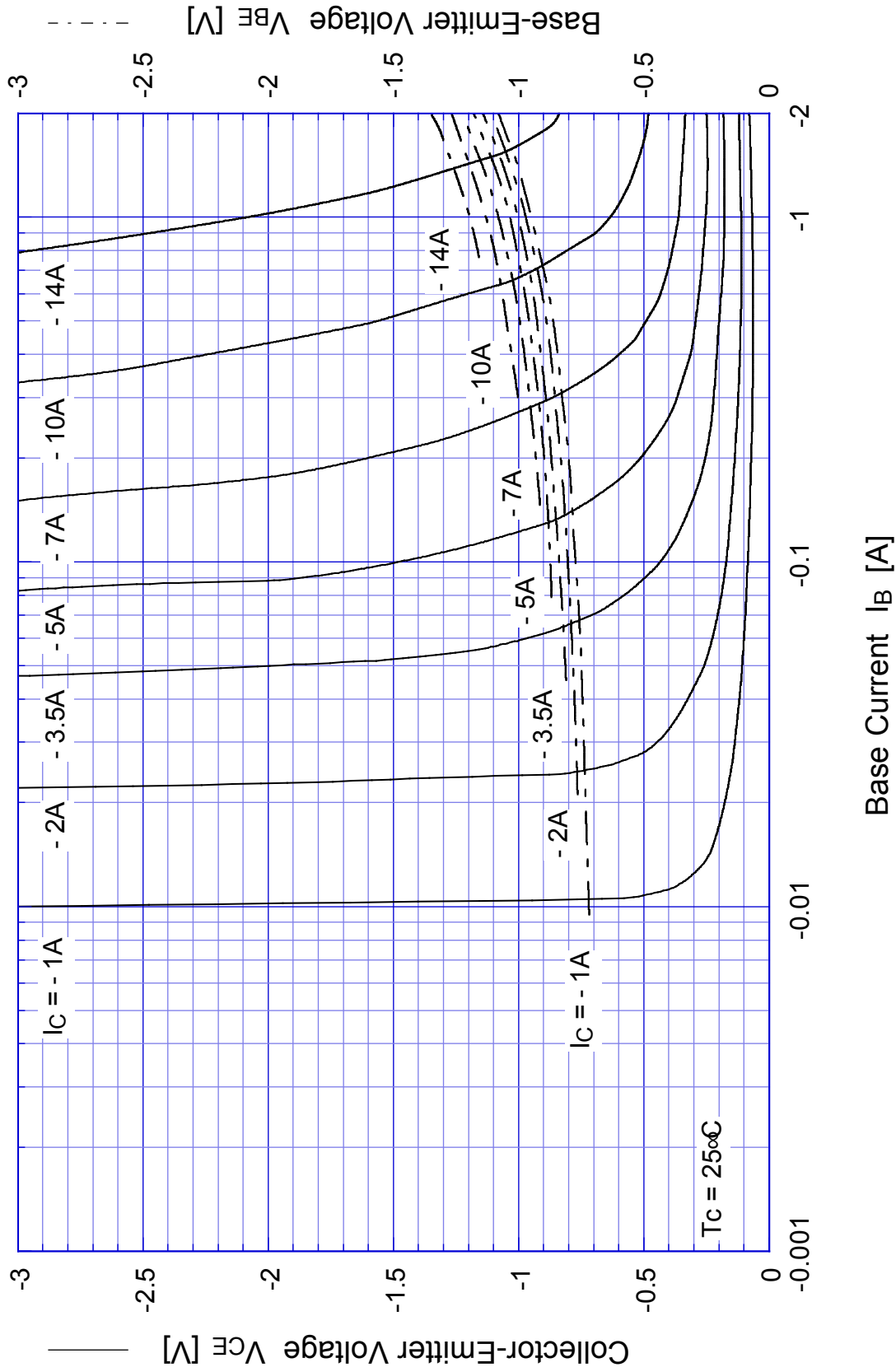
Item	Symbol	Conditions	Ratings	Unit
Collector to Emitter Sustaining Voltage	$V_{CEO(sus)}$	$I_C = -0.1A$	Min -80	V
Collector Cutoff Current	I_{CBO}	At rated Voltage	Max -0.1	mA
	I_{CEO}		Max -0.1	
Emitter Cutoff Current	I_{EBO}	At rated Voltage	Max -0.1	mA
DC Current Gain	h_{FE}	$V_{CE} = -2V, I_C = -3.5A$	Min 70	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -3.5A$	Max -0.3	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_B = -0.35A$	Max -1.2	V
Thermal Resistance	θ_{jc}	Junction to case	Max 5	/W
Transition Frequency	f_T	$V_{CE} = -10V, I_C = -0.7A$	TYP 50	MHz
Turn on Time	t_{on}	$I_C = -3.5A$ $I_{B1} = -0.35A, I_{B2} = -0.35A$ $R_L = 8\Omega, V_{BB2} = -4V$	Max 0.3	μs
Storage Time	t_s		Max 1.5	
Fall Time	t_f		Max 0.2	

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$h_{FE} - I_C$

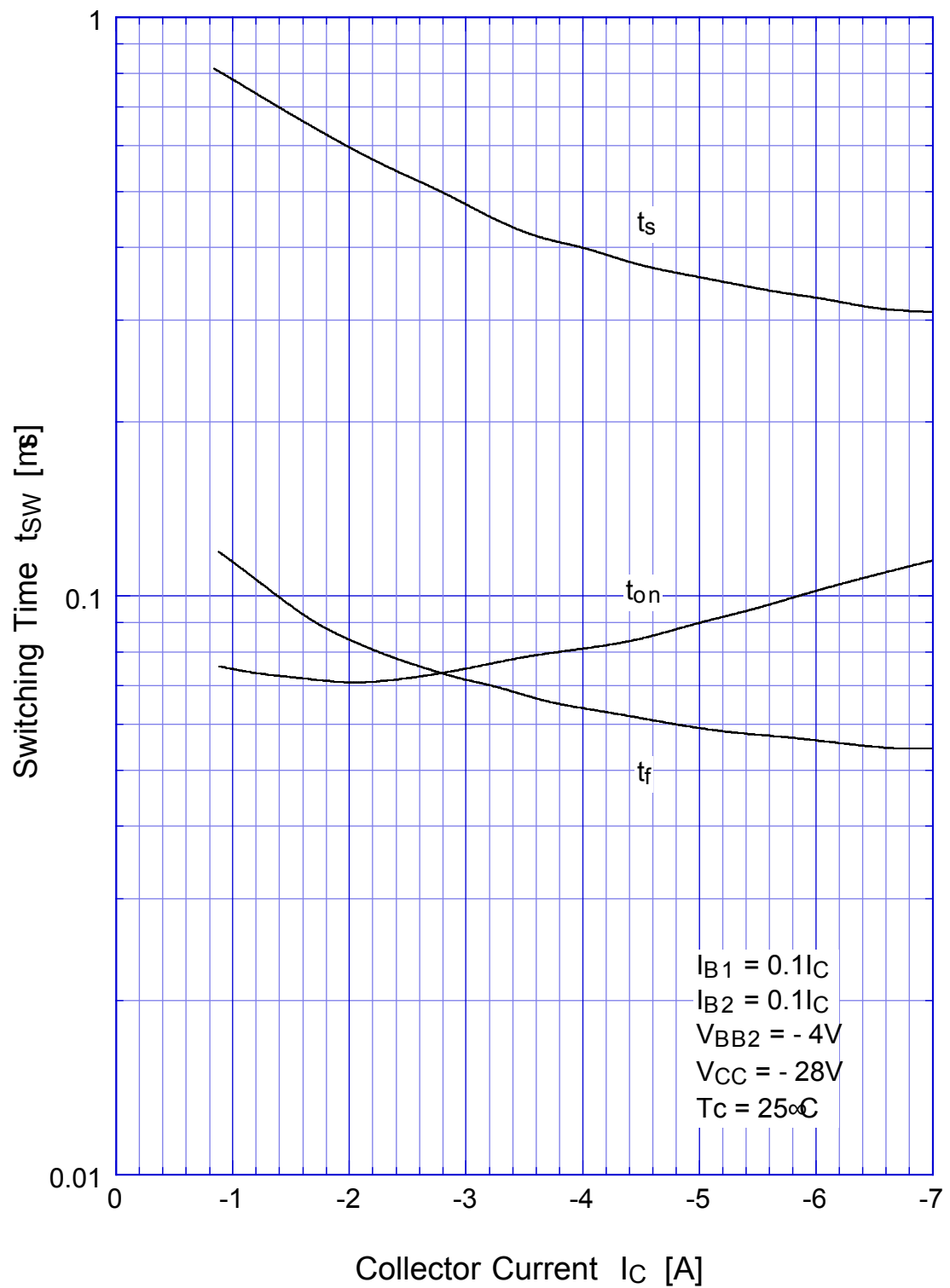


2SA1879 Saturation Voltage



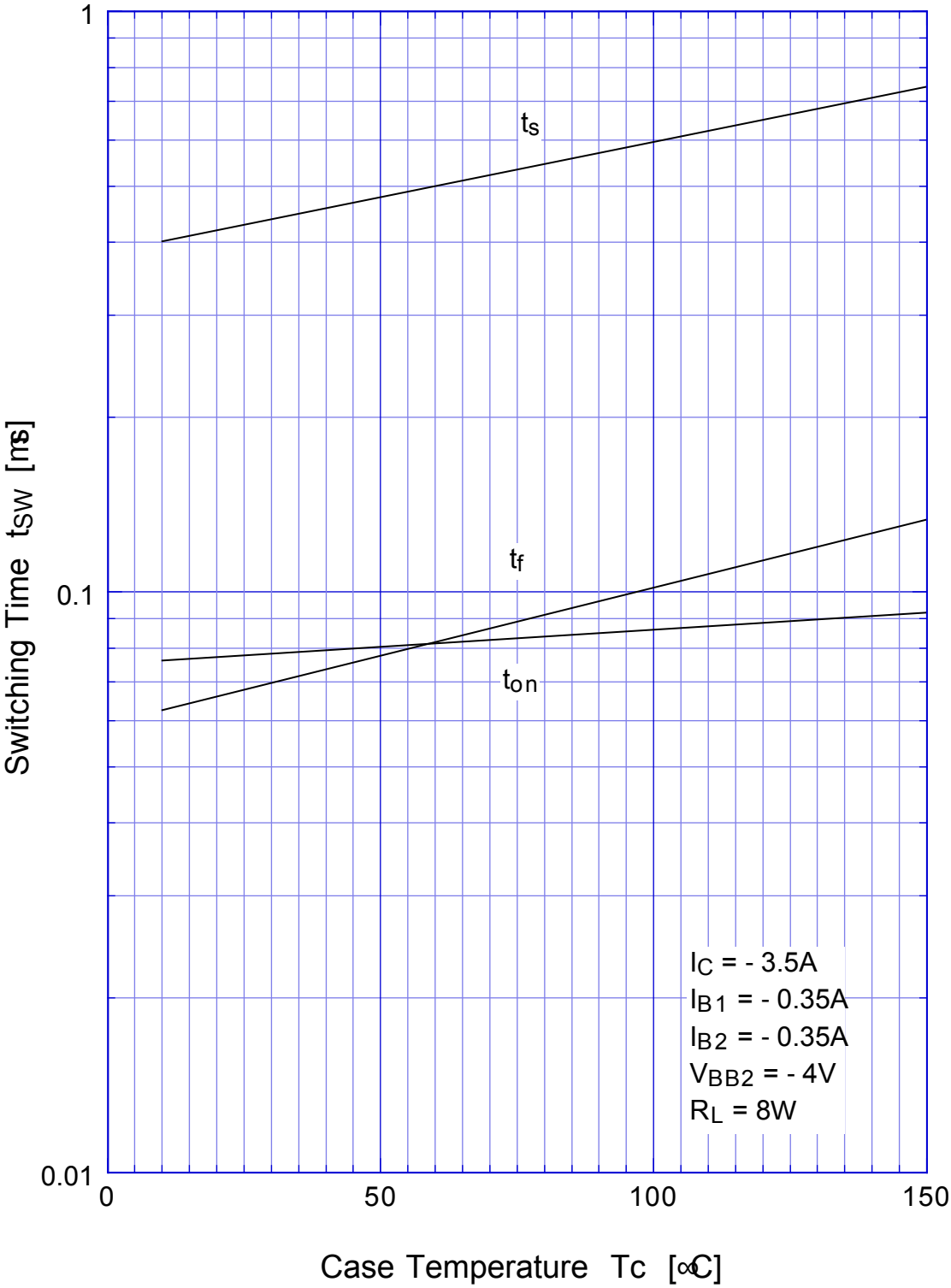
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Switching Time - I_C

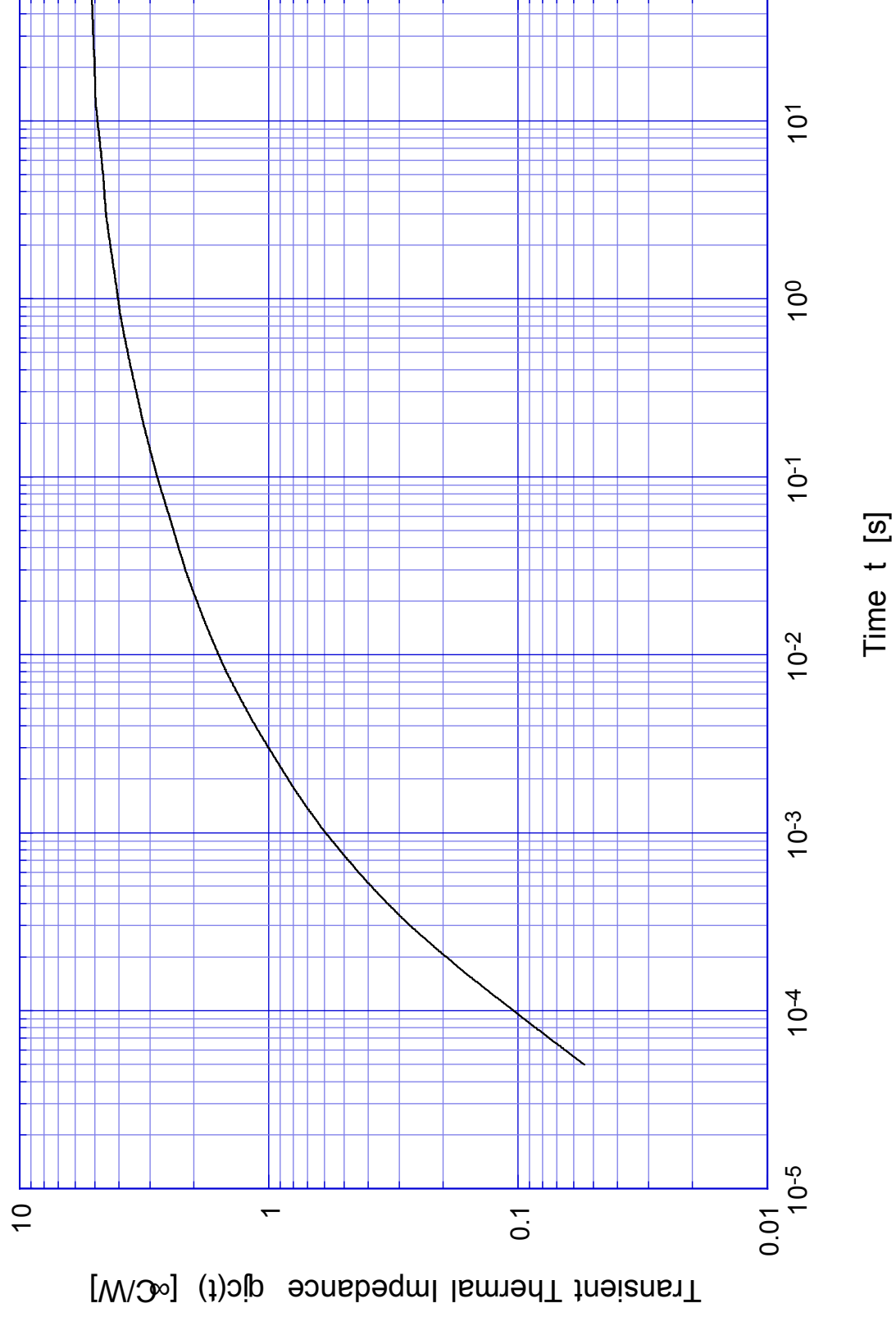


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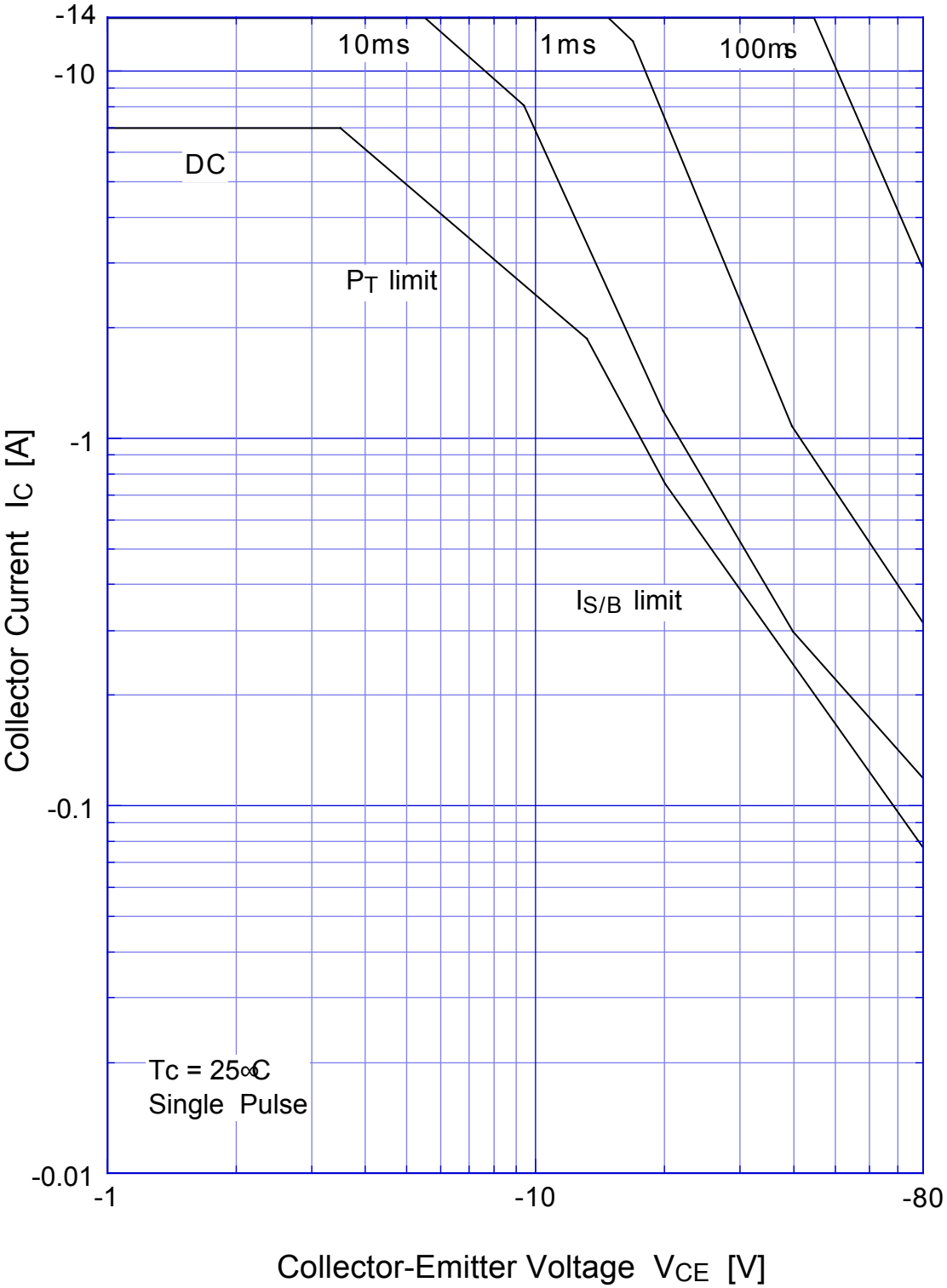
Switching Time - Tc



2SA1879 Transient Thermal Impedance



2SA1879 Forward Bias SOA



2SA1879

Collector Current Derating

