

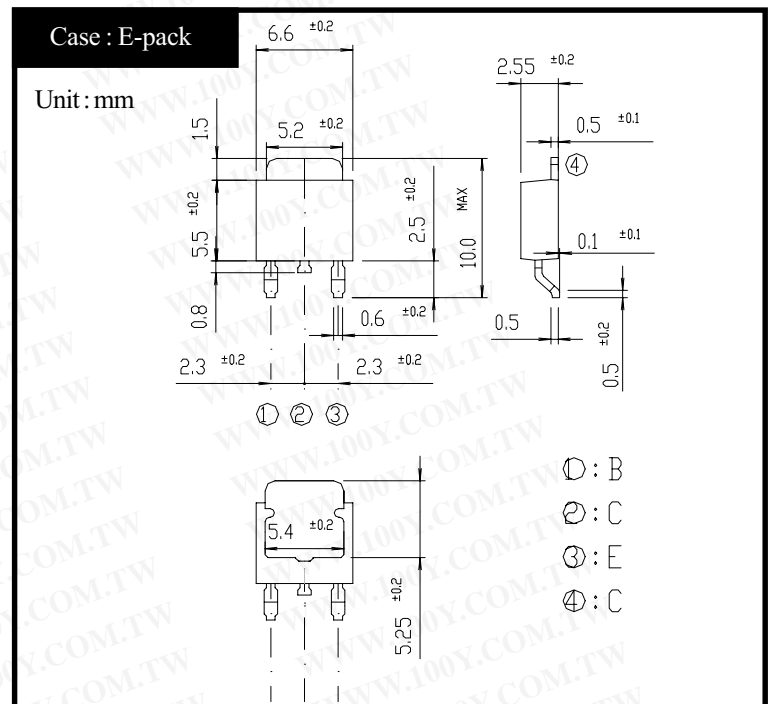
2SC4669

(TE10S4)

10A NPN

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
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OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

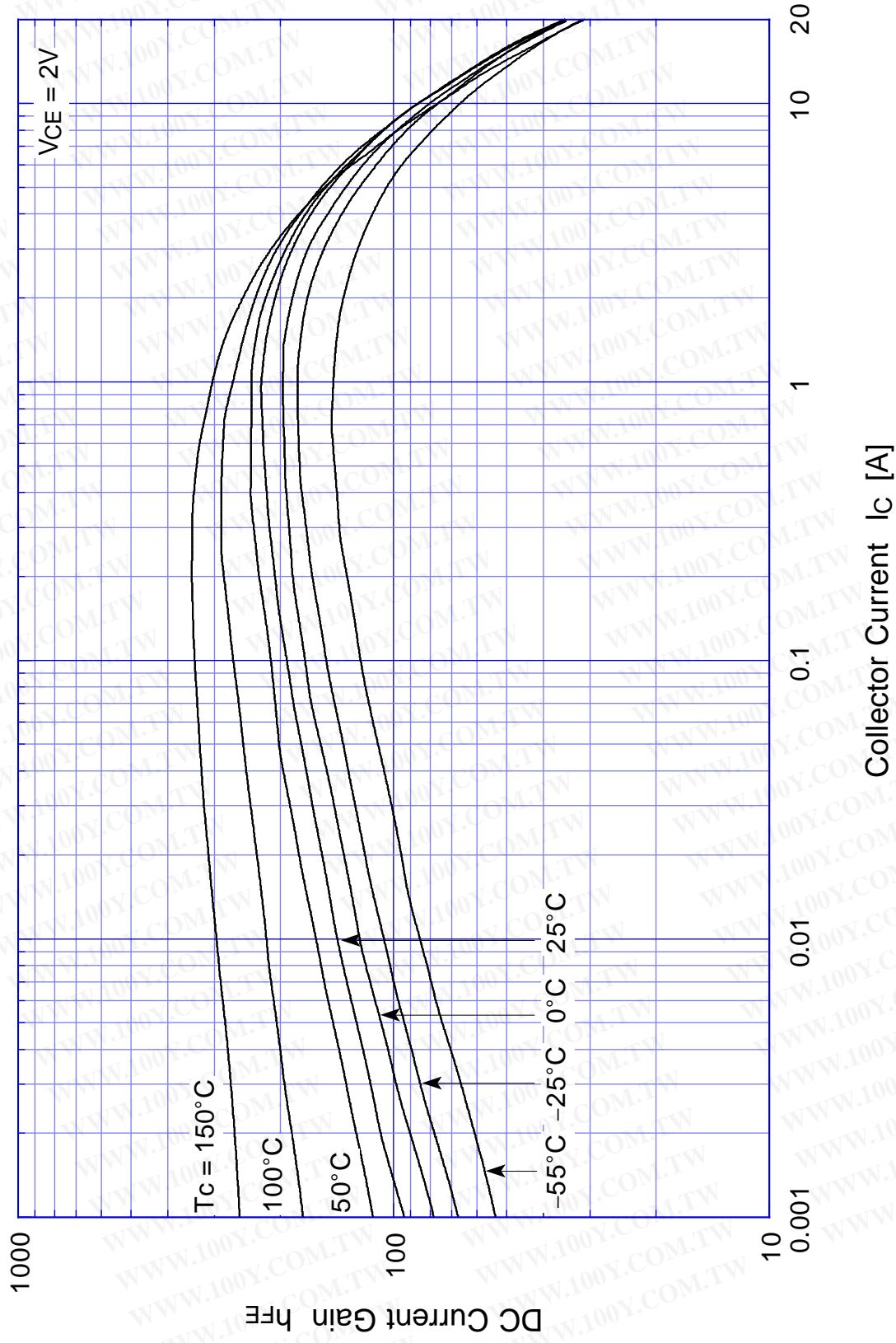
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55~150	°C
Junction Temperature	T_j		150	°C
Collector to Base Voltage	V_{CBO}		60	V
Collector to Emitter Voltage	V_{CEO}		40	V
Emitter to Base Voltage	V_{EBO}		7	V
Collector Current DC	I_C		10	A
Collector Current Peak	I_{CP}		20	A
Base Current DC	I_B		1.5	A
Base Current Peak	I_{BP}		2	A
Total Transistor Dissipation	P_T	$T_c = 25^\circ C$	10	W

● Electrical Characteristics ($T_c=25^\circ C$)

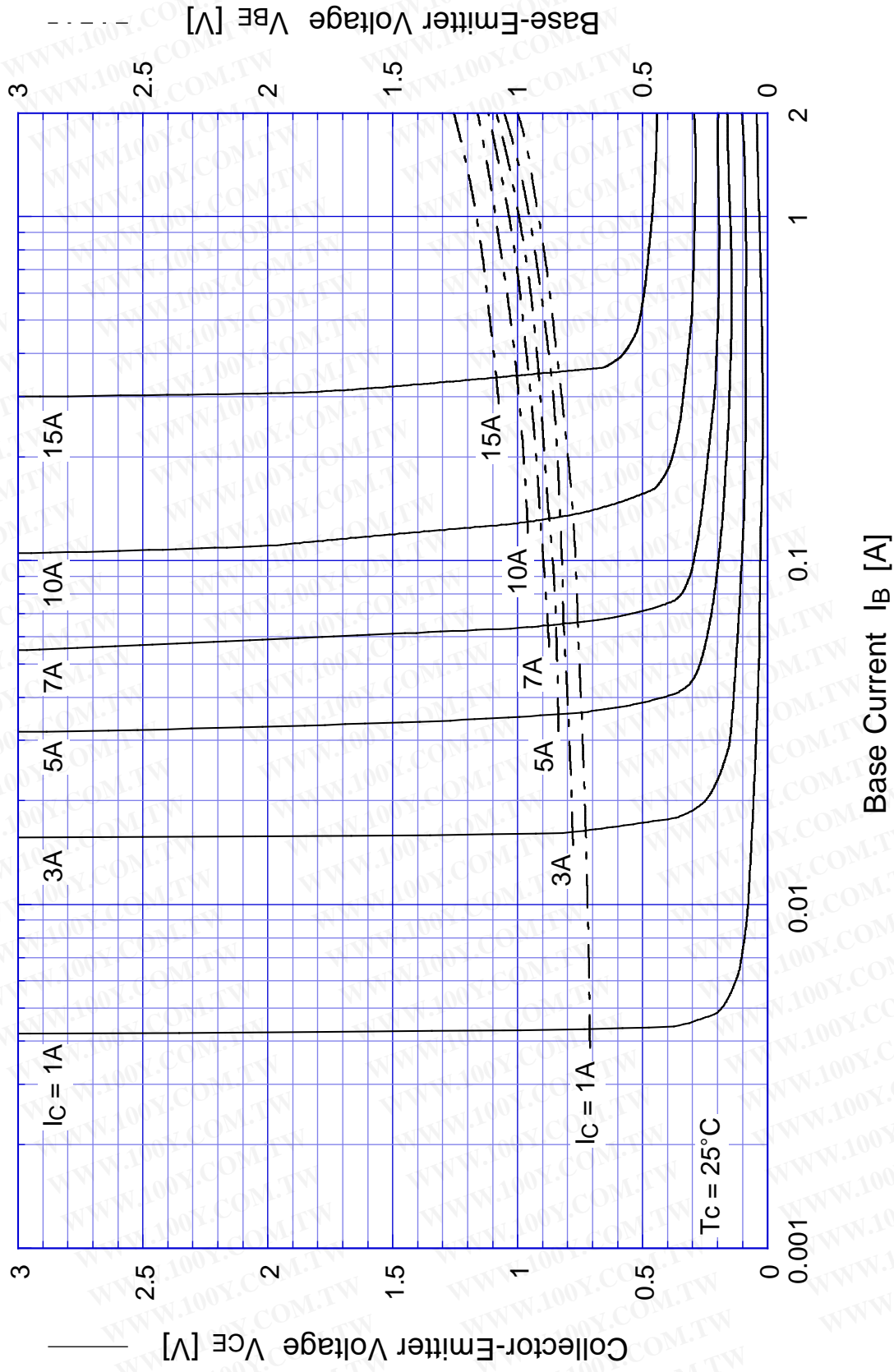
Item	Symbol	Conditions	Ratings	Unit
Collector to Emitter Sustaining Voltage	$V_{CEO}(sus)$	$I_C = 0.1A$	Min 40	V
Collector Cutoff Current	I_{CBO}	At rated Voltage	Max 0.1	mA
	I_{CEO}		Max 0.1	
Emitter Cutoff Current	I_{EBO}	At rated Voltage	Max 0.1	mA
DC Current Gain	h_{FE}	$V_{CE} = 2V, I_C = 5A$	Min 70	
Collector to Emitter Saturation Voltage	$V_{CE}(sat)$	$I_C = 5A$	Max 0.3	V
Base to Emitter Saturation Voltage	$V_{BE}(sat)$	$I_B = 0.5A$	Max 1.2	V
Thermal Resistance	θ_{jc}	Junction to case	Max 12.5	°C/W
Transition Frequency	f_T	$V_{CE} = 10V, I_C = 1A$	TYP 50	MHz
Turn on Time	t_{on}	$I_C = 5A$ $I_{B1} = 0.5A, I_{B2} = 0.5A$ $R_L = 5\Omega, V_{BB2} = 4V$	Max 0.3	μs
Storage Time	t_s		Max 1.5	
Fall Time	t_f		Max 0.5	

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$h_{FE} - I_c$

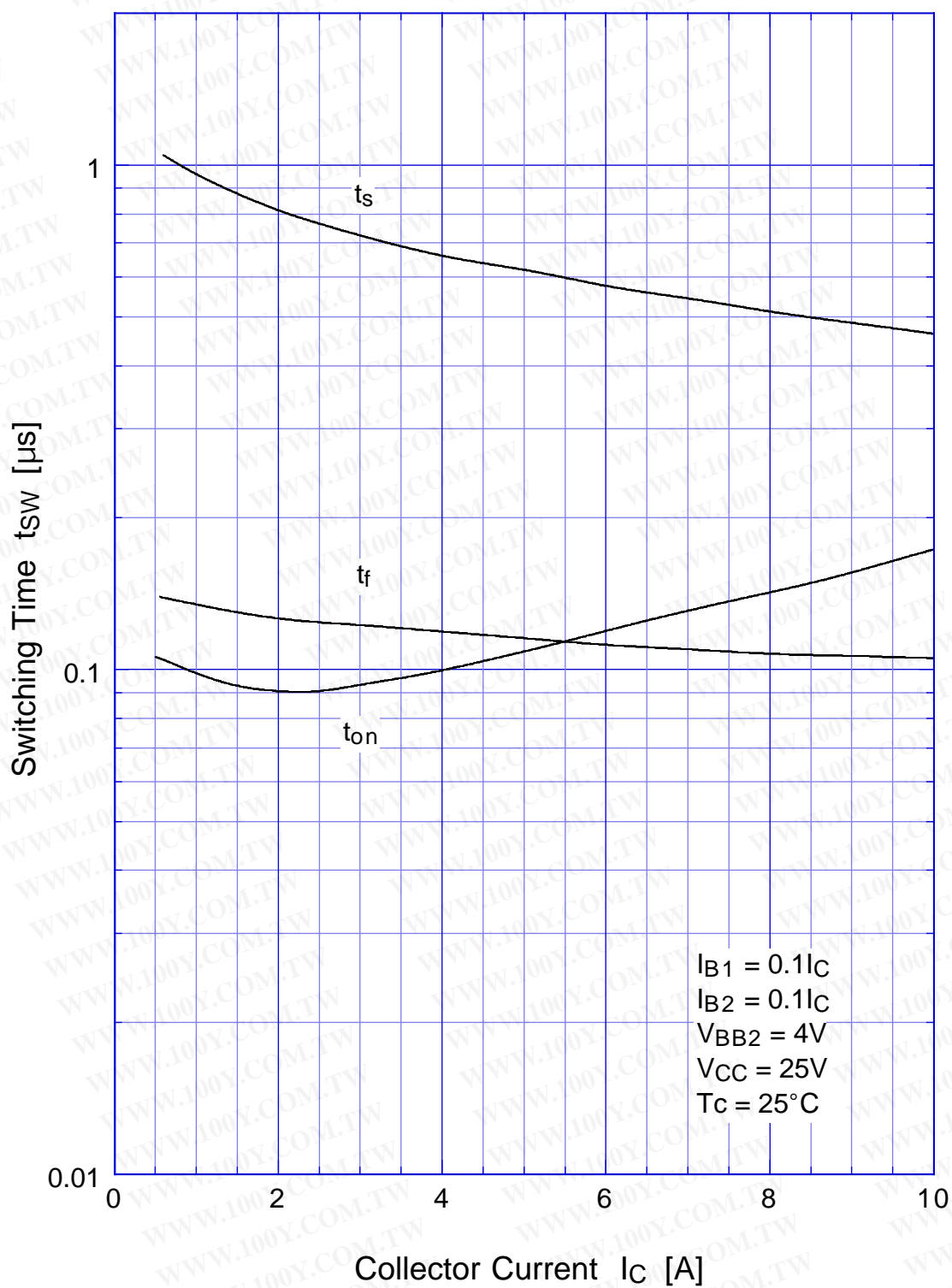


2SC4669 Saturation Voltage



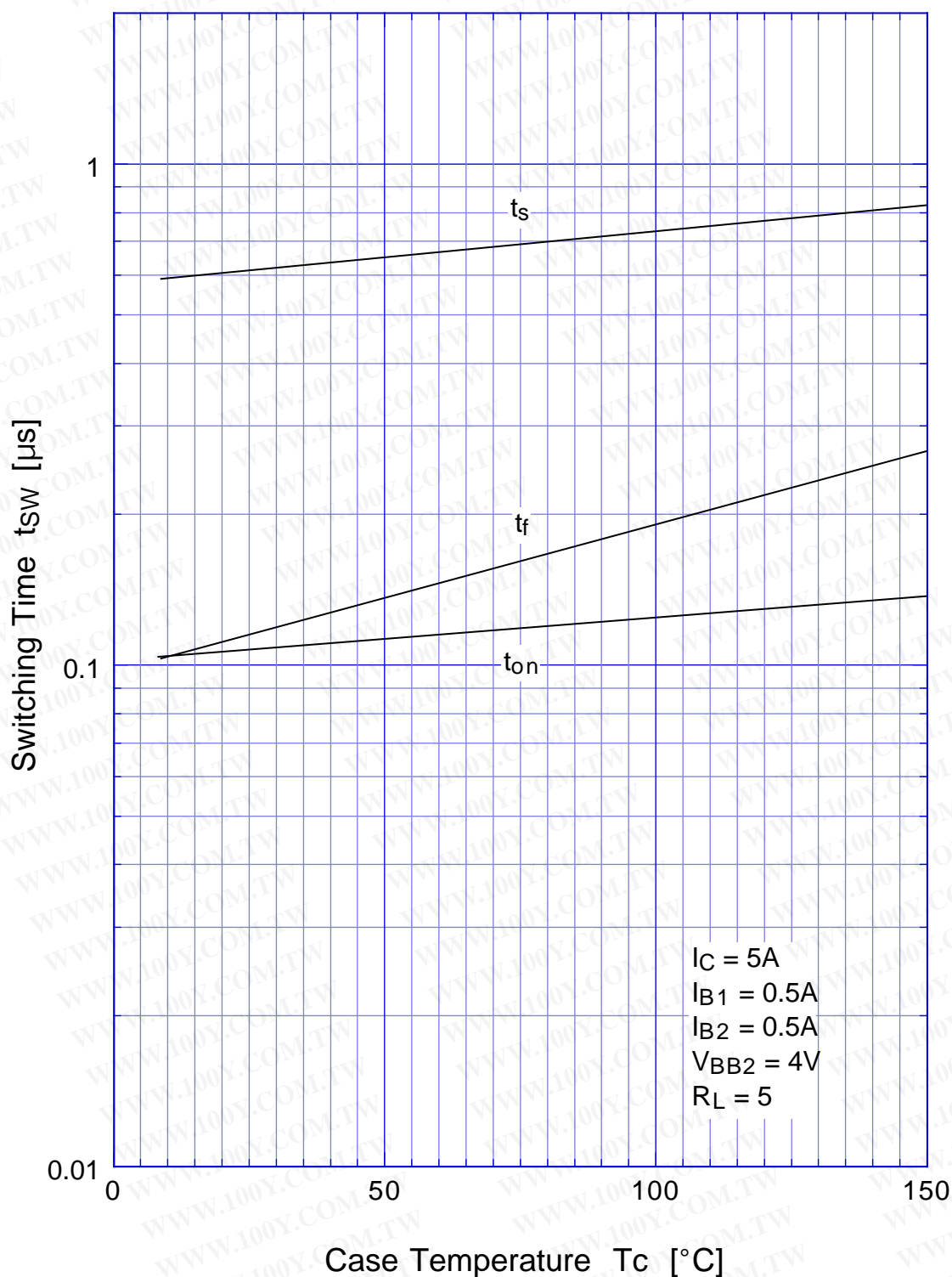
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Switching Time - I_C

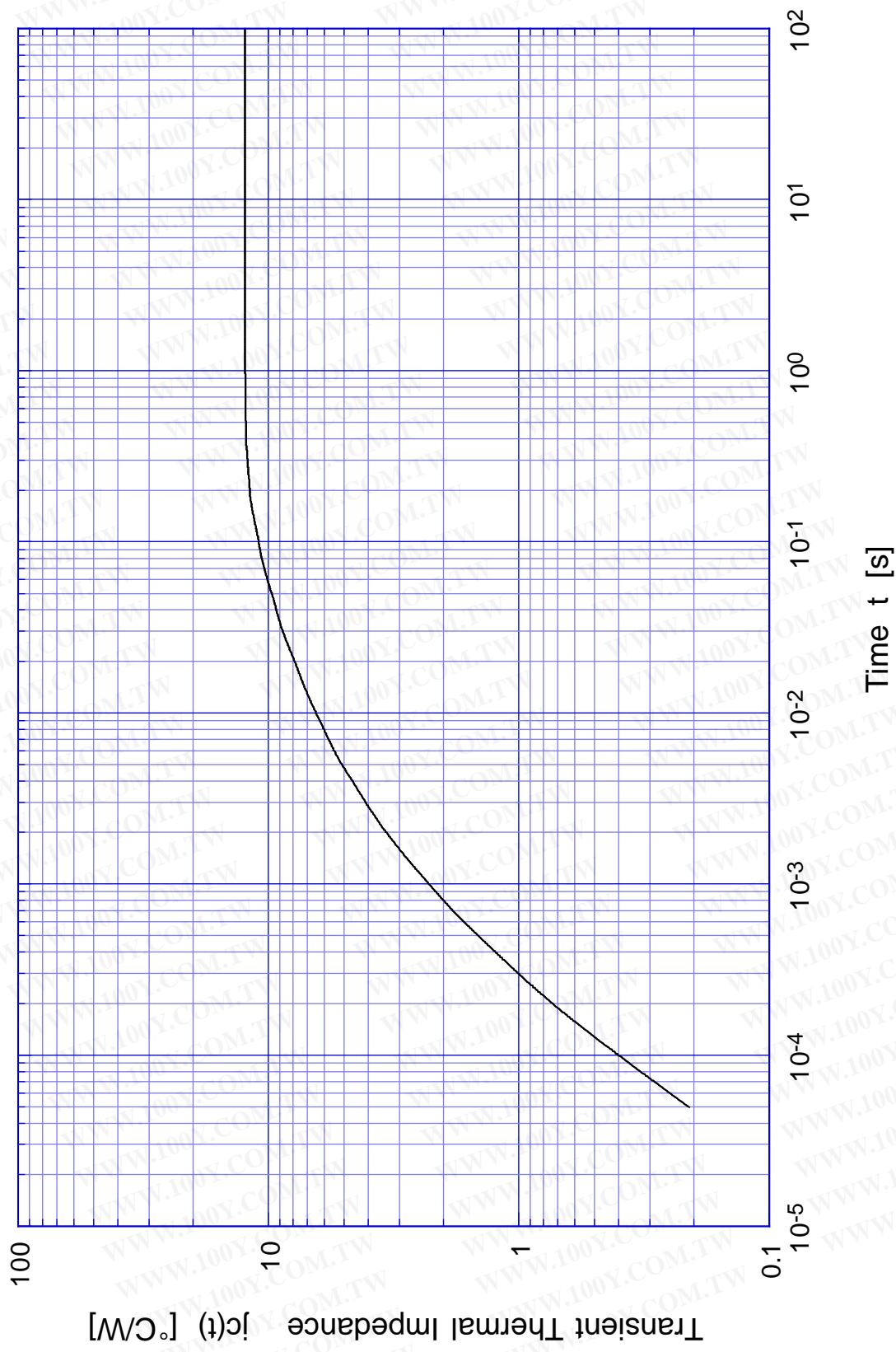


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Switching Time - Tc

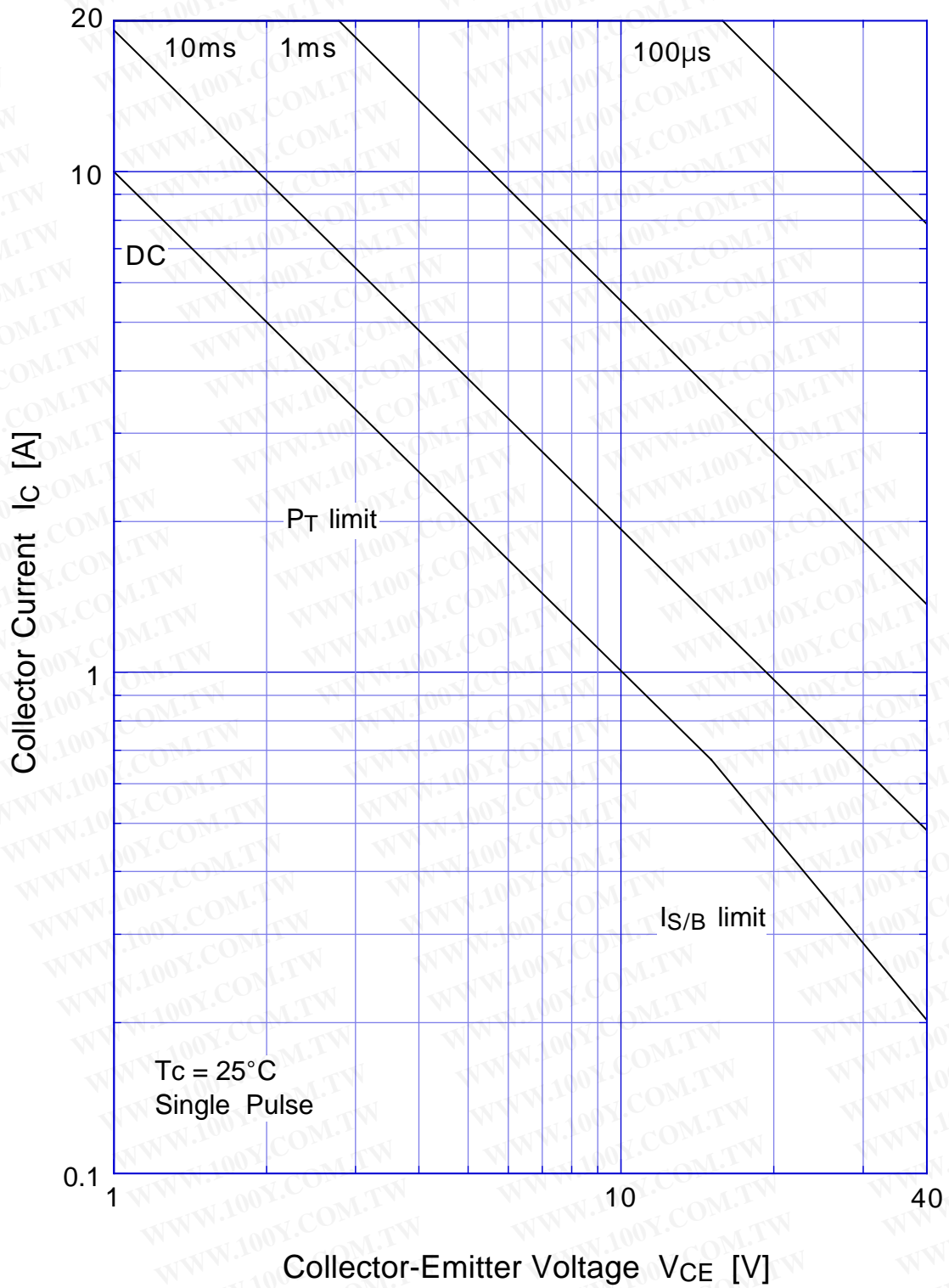


2SC4669 Transient Thermal Impedance

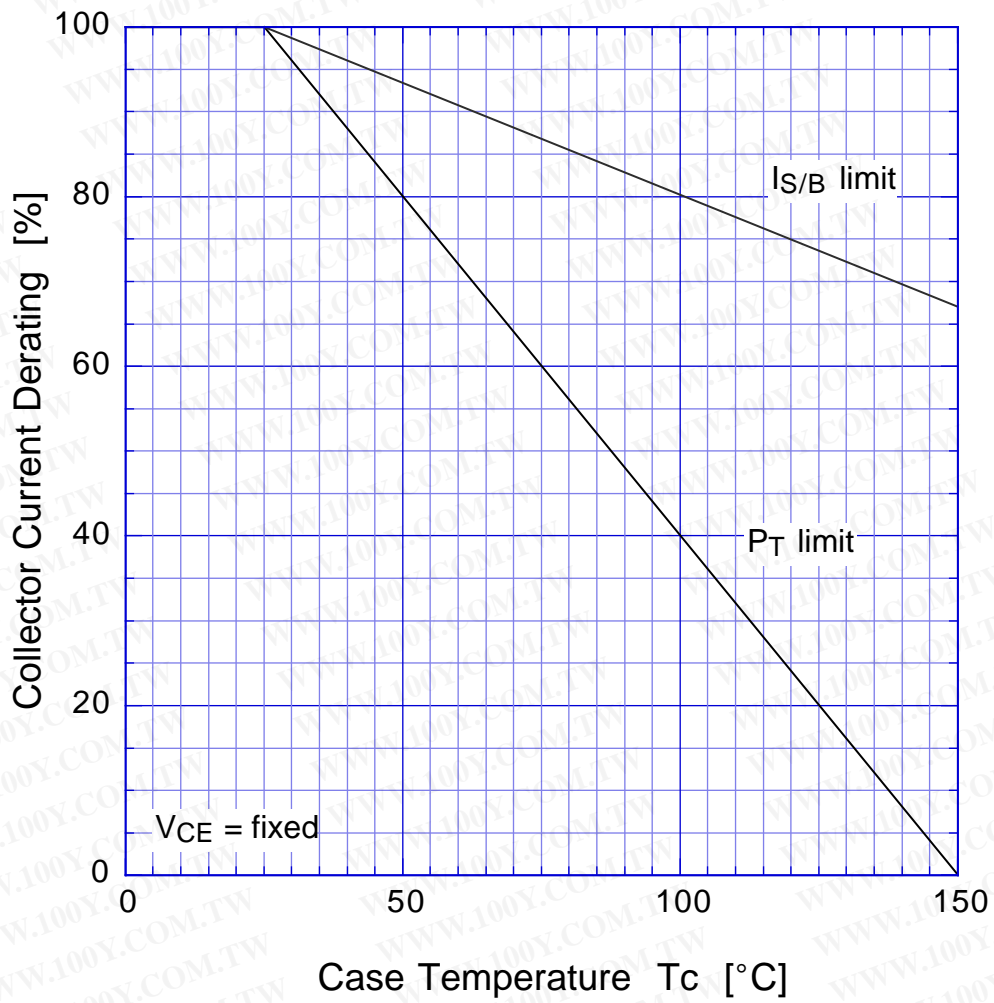


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Forward Bias SOA

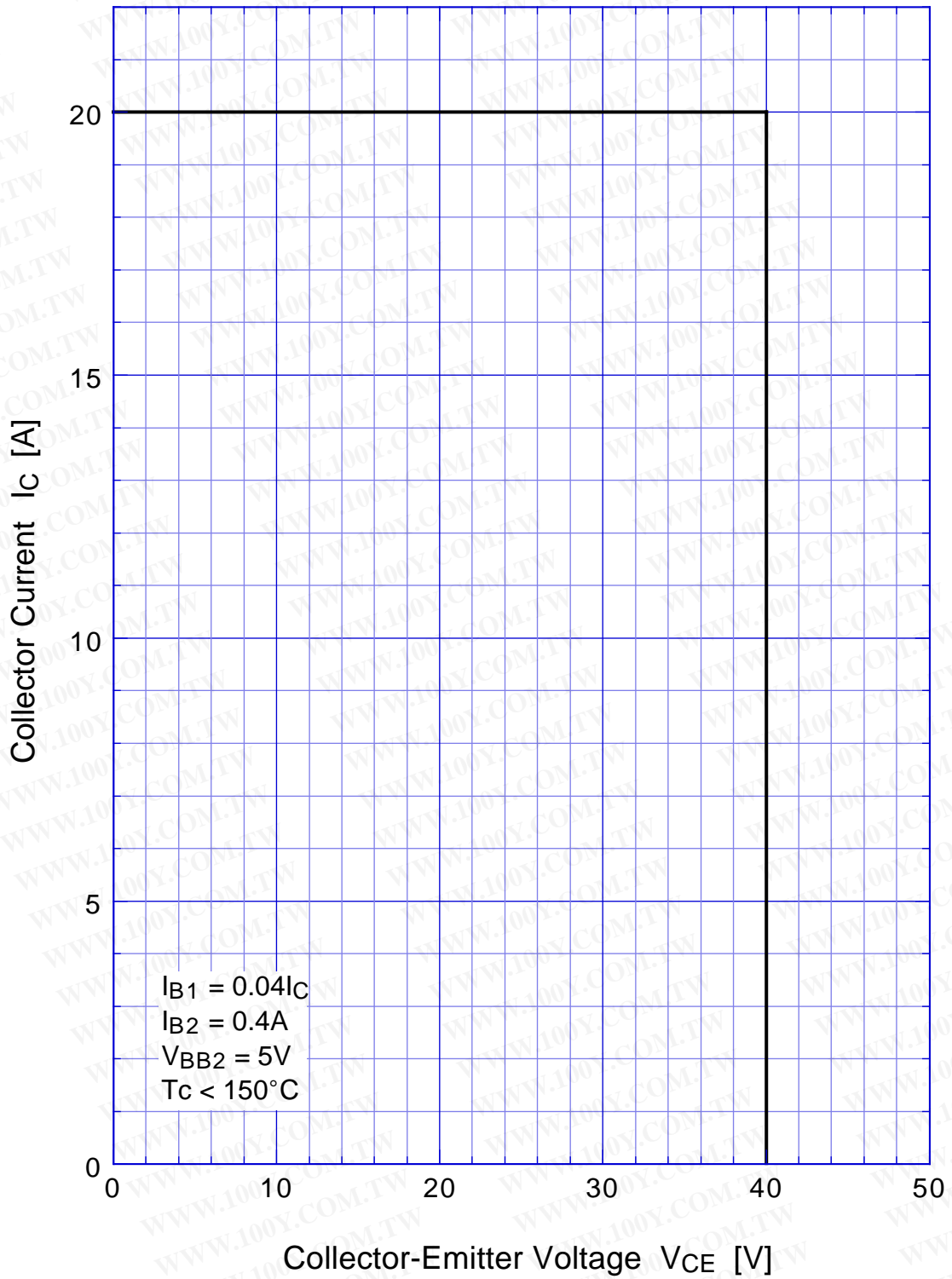


2SC4669 Collector Current Derating



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Reverse Bias SOA



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