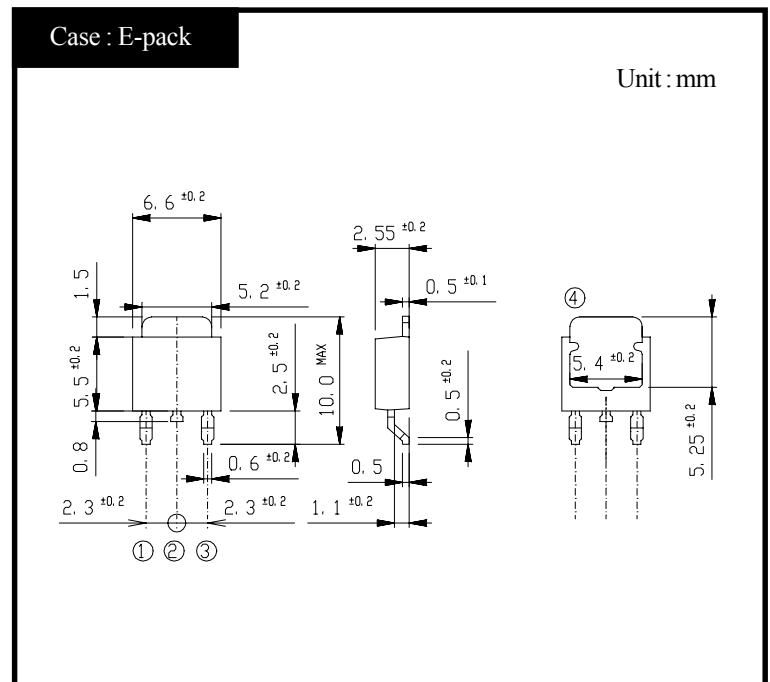


# 2SA1795 (TE5T4)

## -5A PNP

### OUTLINE DIMENSIONS



### RATINGS

#### ● Absolute Maximum Ratings

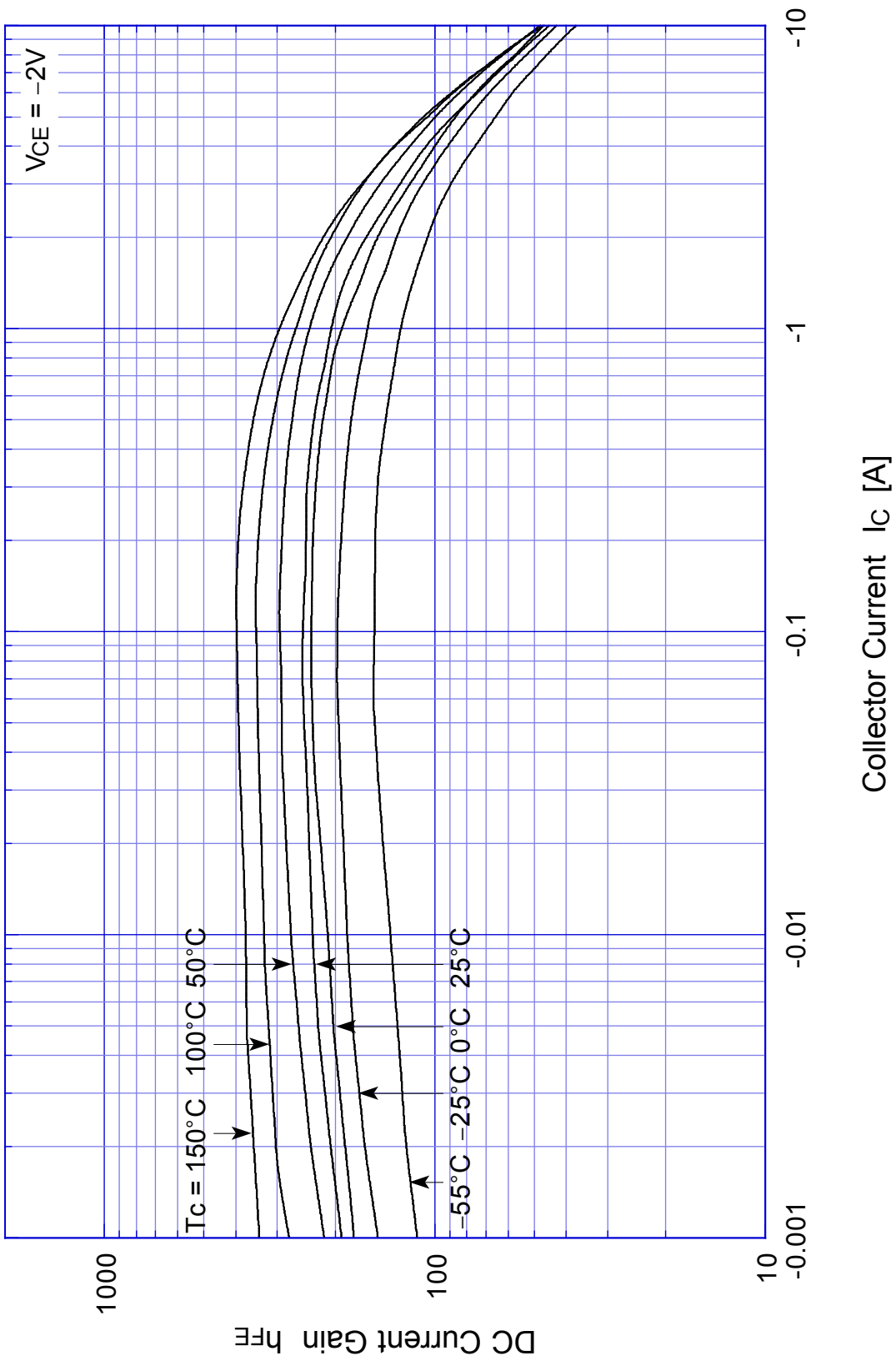
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	$T_{stg}$		-55~150	°C
Junction Temperature	$T_j$		150	°C
Collector to Base Voltage	$V_{CBO}$		-60	V
Collector to Emitter Voltage	$V_{CEO}$		-40	V
Emitter to Base Voltage	$V_{EBO}$		-7	V
Collector Current DC	$I_C$		-5	A
Collector Current Peak	$I_{CP}$		-10	A
Base Current DC	$I_B$		-1.5	A
Base Current Peak	$I_{BP}$		-2	A
Total Transistor Dissipation	$P_T$	$T_c = 25^\circ\text{C}$	10	W

#### ● Electrical Characteristics ( $T_c=25^\circ\text{C}$ )

Item	Symbol	Conditions	Ratings	Unit
Collector to Emitter Sustaining Voltage	$V_{CEO(sus)}$	$I_C = -0.05\text{A}$	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	$h_{FE}$	$V_{CE} = -2\text{V}, I_C = -2.5\text{A}$	Min 70	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -2.5\text{A}$	Max -0.3	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_B = -0.13\text{A}$	Max -1.2	V
Thermal Resistance	$\theta_{jc}$	Junction to case	Max 12.5	°C/W
Transition Frequency	$f_T$	$V_{CE} = -10\text{V}, I_C = -0.5\text{A}$	TYP 50	MHz
Turn on Time	$t_{on}$	$I_C = -2.5\text{A}$ $I_{B1} = -0.25\text{A}, I_{B2} = -0.25\text{A}$ $R_L = 12\ \Omega, V_{BB2} = -4\text{V}$	Max 0.3	$\mu\text{s}$
Storage Time	$t_s$		Max 1.5	
Fall Time	$t_f$		Max 0.5	

2SA1795

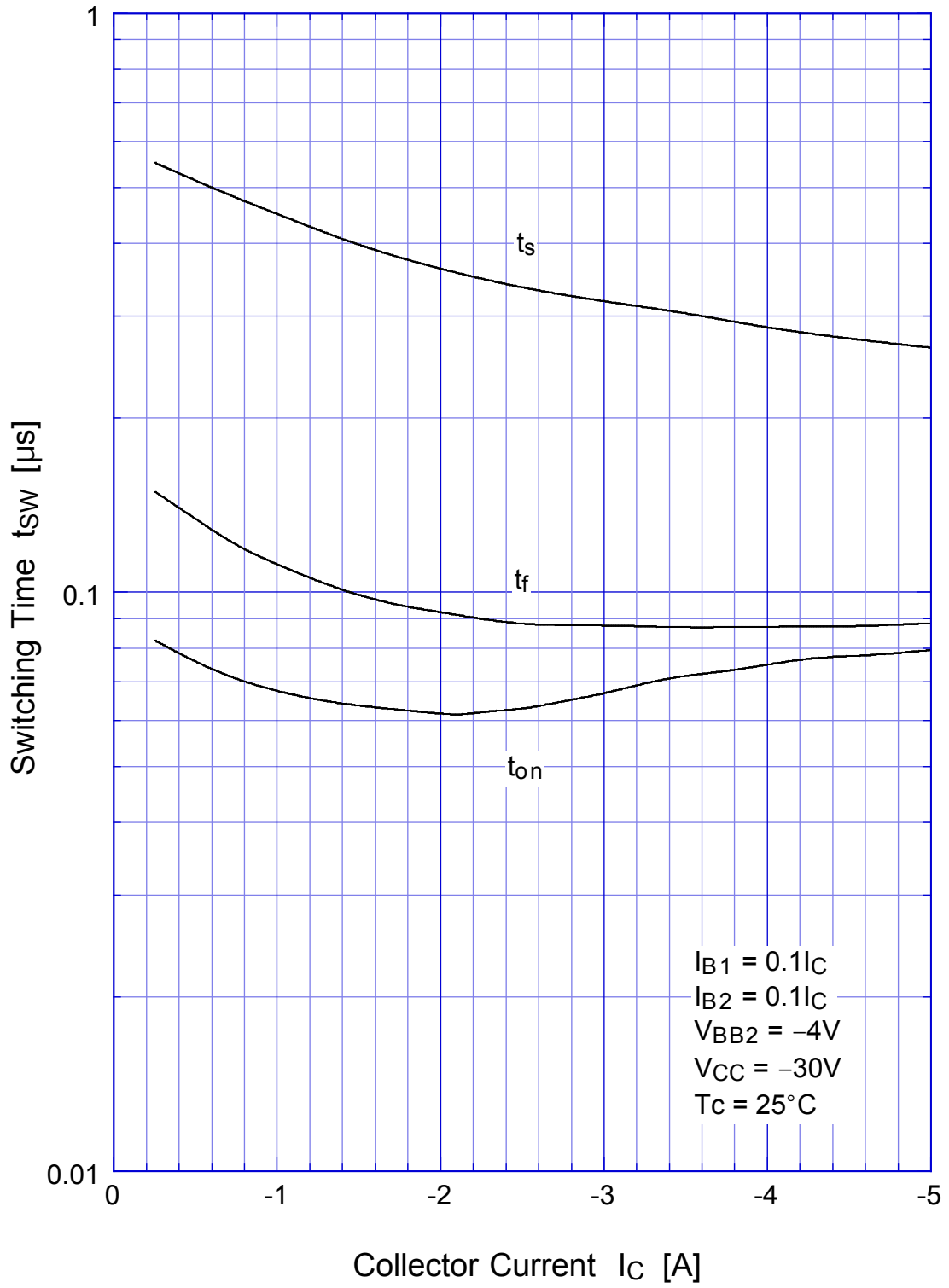
$h_{FE} - I_C$





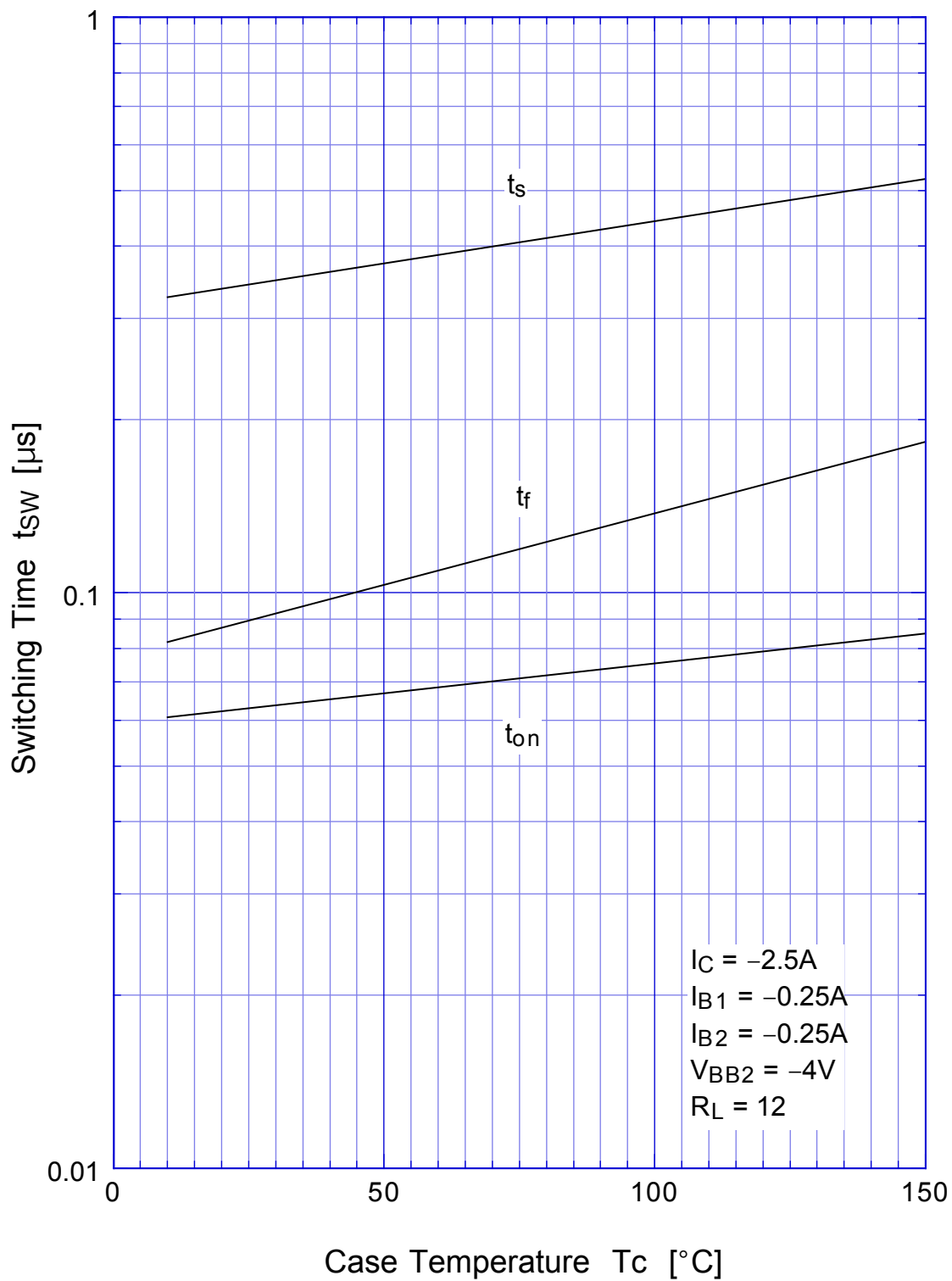
# 2SA1795

## Switching Time - $I_C$

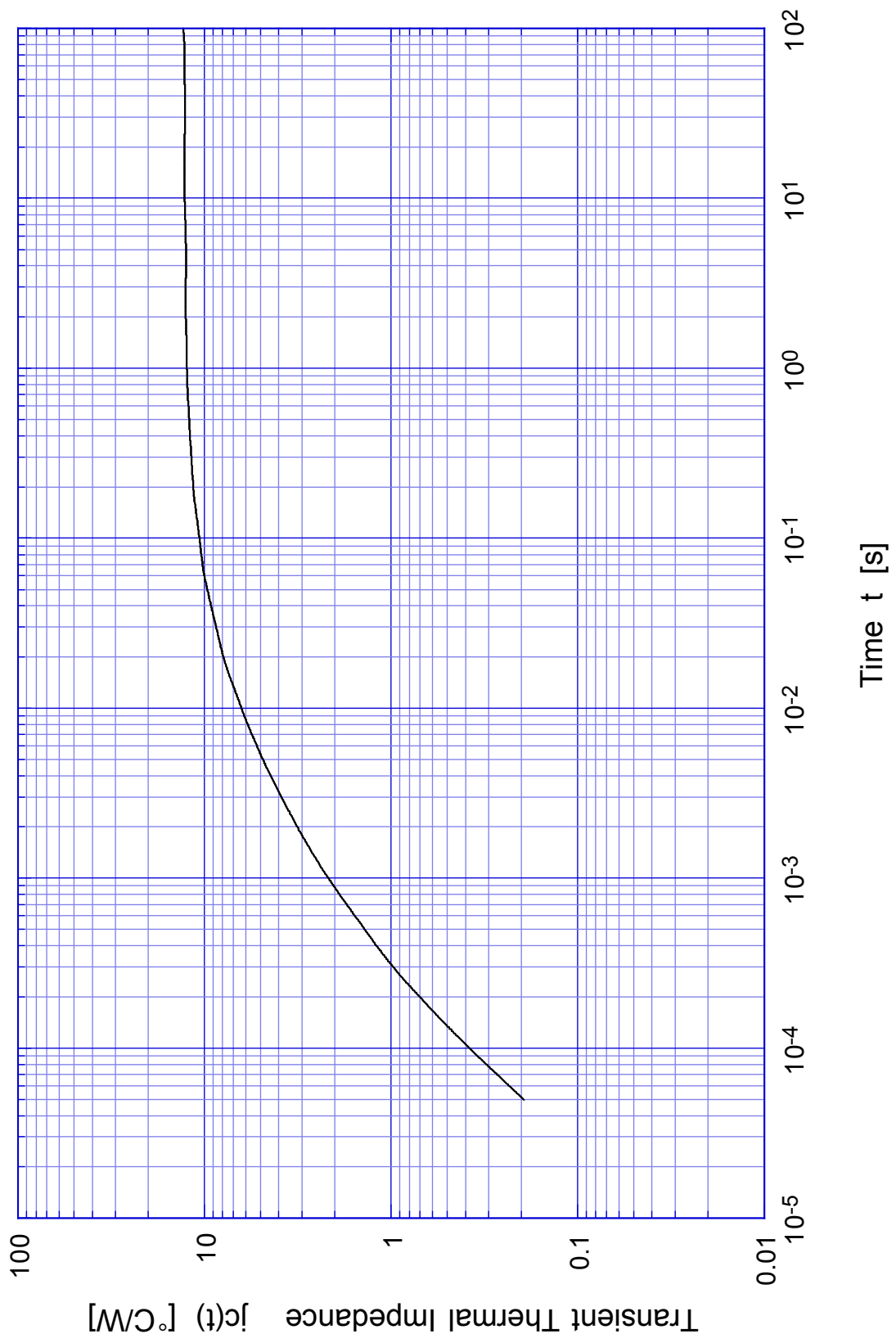


# 2SA1795

## Switching Time - Tc

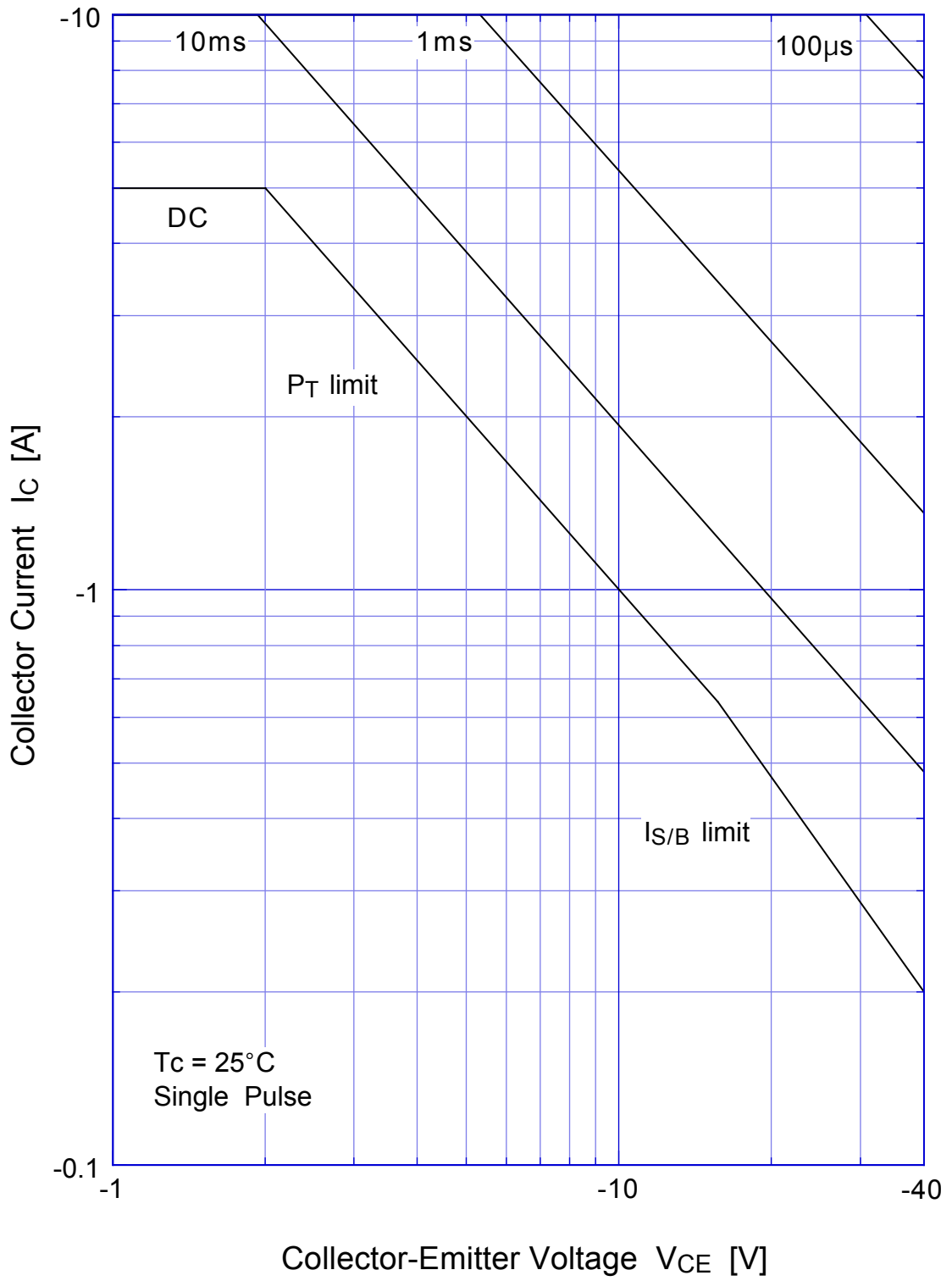


# 2SA1795 Transient Thermal Impedance



# 2SA1795

## Forward Bias SOA



## 2SA1795 Collector Current Derating

