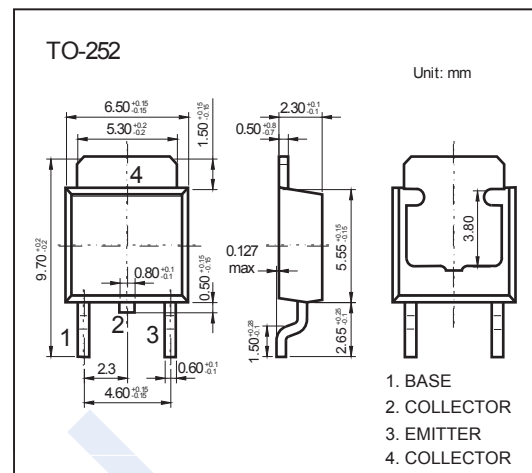


PNP Transistor

2SB772

■ Features

- PNP transistor High current output up to 3A
- Low Saturation Voltage
- Complement to 2SD882

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CB0}	-40	V
Collector to Emitter Voltage	V_{CE0}	-30	V
Emitter to Base Voltage	V_{EB0}	-7	V
Collector Current to Continuous	I_c	-3	A
Collector Dissipation	P_c	1	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to 150	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

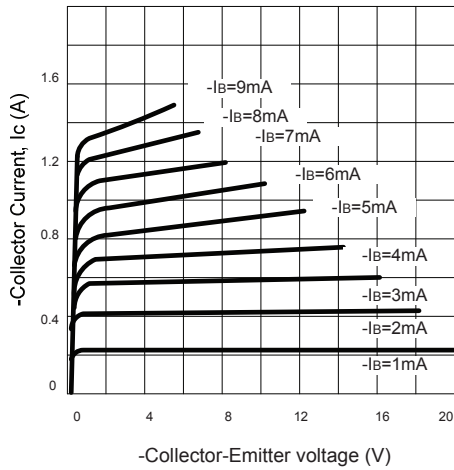
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CB0}	$I_c = -100\mu\text{A}, I_E = 0$	-40			V
Collector-emitter breakdown voltage	V_{CE0}	$I_c = -10\text{ mA}, I_B = 0$	-30			V
Emitter-base breakdown voltage	V_{EB0}	$I_E = -100\mu\text{A}, I_c = 0$	-7			V
Collector cut-off current	I_{CBO}	$V_{CB} = -30\text{ V}, I_E = 0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -6\text{ V}, I_c = 0$			-1	μA
DC current gain	h_{FE}	$V_{CE} = -2\text{ V}, I_c = -1\text{ A}$	100		400	
		$V_{CE} = -2\text{ V}, I_c = -100\text{ mA}$	32			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c = -2\text{ A}, I_B = -0.2\text{ A}$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_c = -2\text{ A}, I_B = -0.2\text{ A}$			-1.5	V
Transition frequency	f_T	$V_{CE} = -5\text{ V}, I_c = -0.1\text{ mA}, f = 10\text{ MHz}$	50			MHz

PNP Transistor

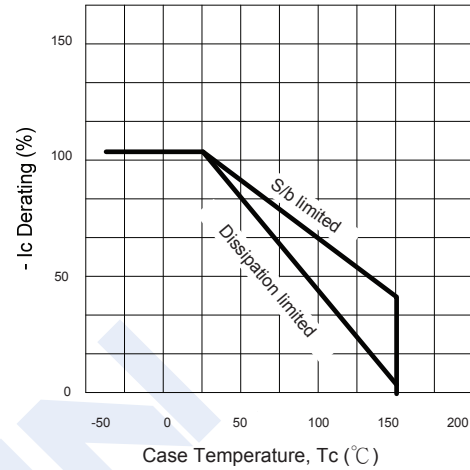
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■ Typical Characteristics

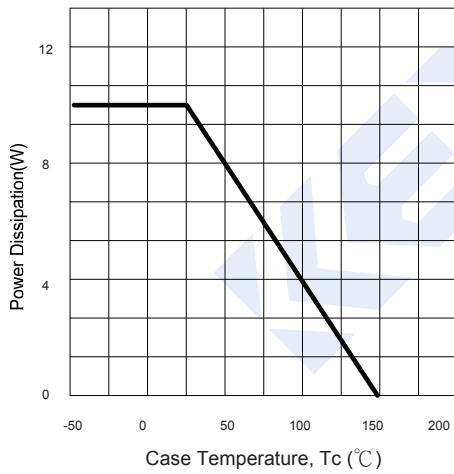
Static Characteristics



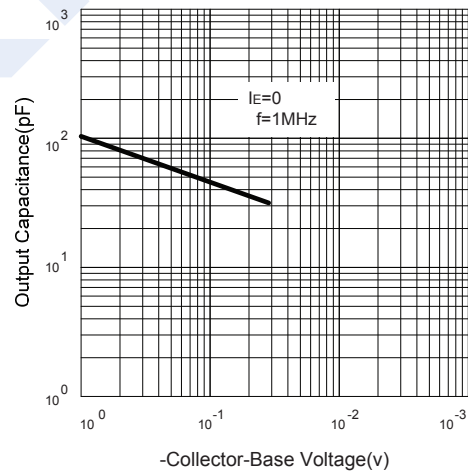
Derating Curve of Safe Operating Areas



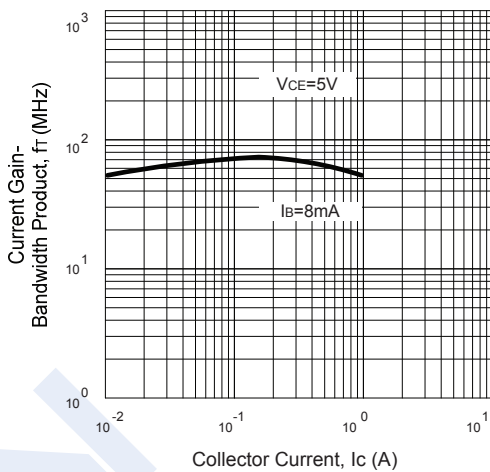
Power Derating



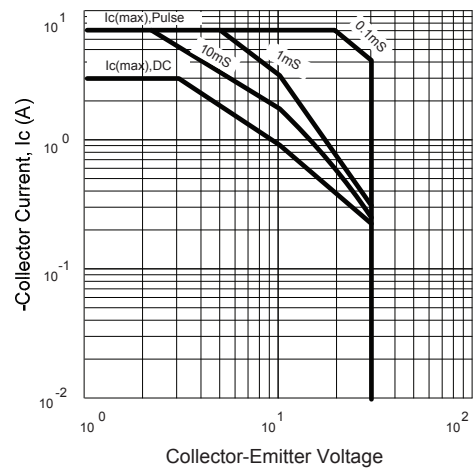
Collector Output Capacitance



Current Gain-Bandwidth Product



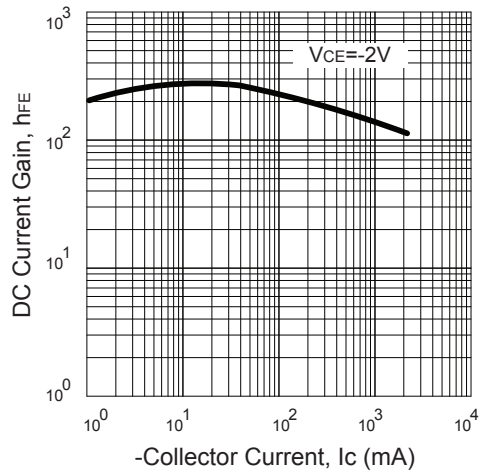
Safe Operating Area



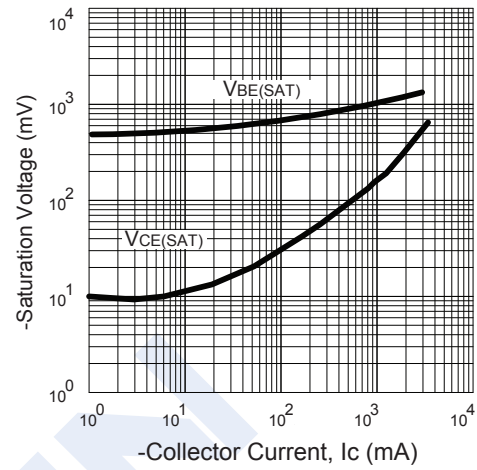
PNP Transistor

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DC Current Gain



Saturation Voltage



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