

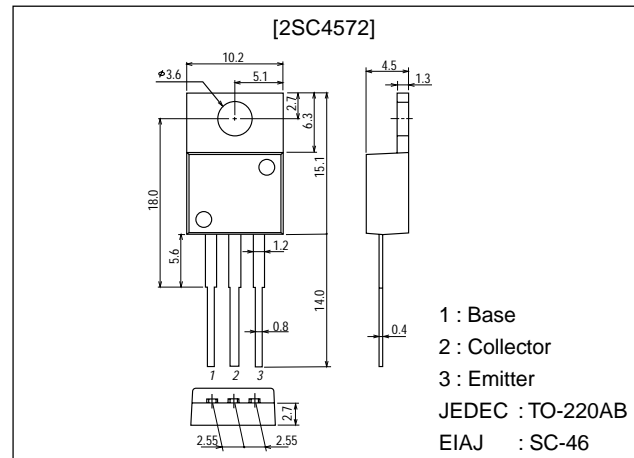
**2SC4572****800V/20mA Switching Applications****Features**

- High breakdown voltage.
- Small Cob.
- High reliability (Adoption of HVP process).

**Package Dimensions**

unit:mm

2010C

**Specifications****Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	$V_{CBO}$		800	V
Collector-to-Emitter Voltage	$V_{CEO}$		800	V
Emitter-to-Base Voltage	$V_{EBO}$		7	V
Collector Current	$I_C$		20	mA
Collector Current (Pulse)	$I_{CP}$		60	mA
Collector Dissipation	$P_C$		1.75	W
Junction Temperature	$T_J$		150	°C
Storage Temperature	$T_{stg}$		-55 to +150	°C

**Electrical Characteristics at Ta = 25°C**

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=800V, I_E=0$			1	$\mu A$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$			1	$\mu A$
DC Current Gain	$h_{FE1}$	$V_{CE}=5V, I_C=2mA$	20		50	
	$h_{FE2}$	$V_{CE}=5V, I_C=10mA$	10			
Gain-Bandwidth Product	$f_T$	$V_{CE}=10V, I_C=2mA$		40		MHz
Output Capacitance	$C_{ob}$	$V_{CB}=100V, f=1MHz$		1.6		pF
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=2mA$			1	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=10mA, I_B=2mA$			1.5	V

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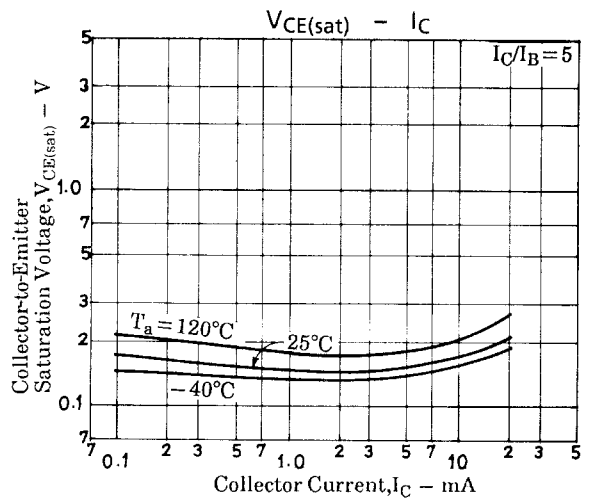
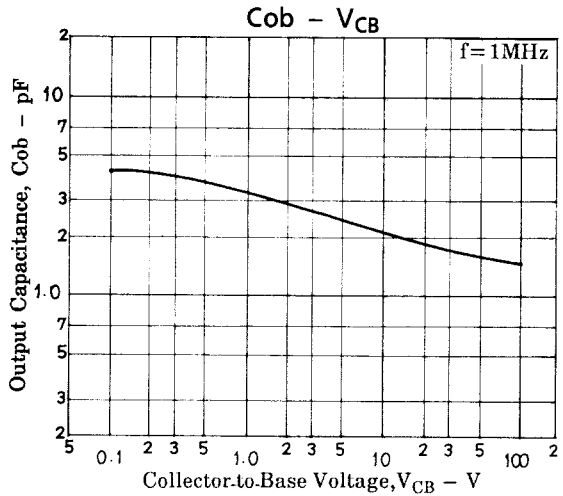
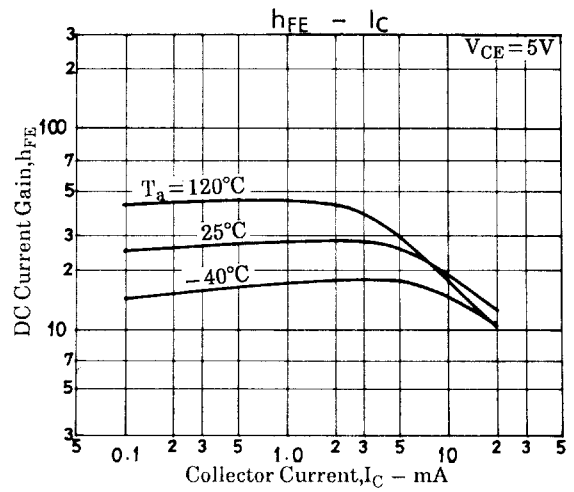
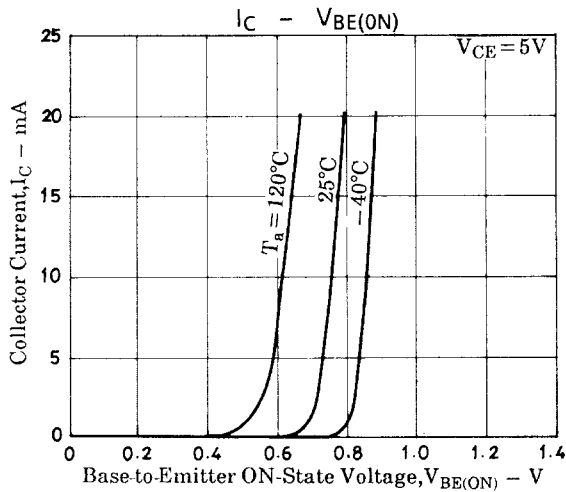
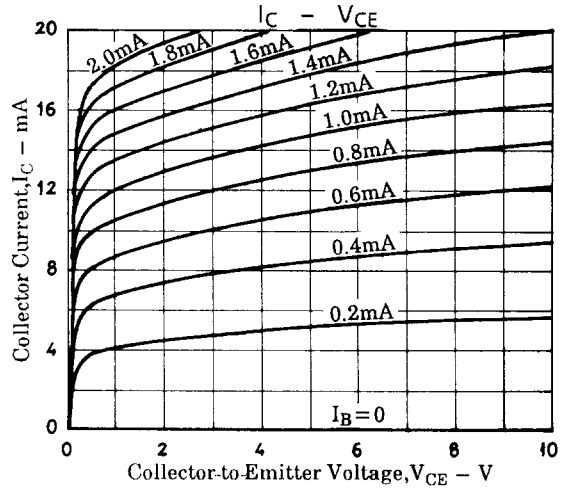
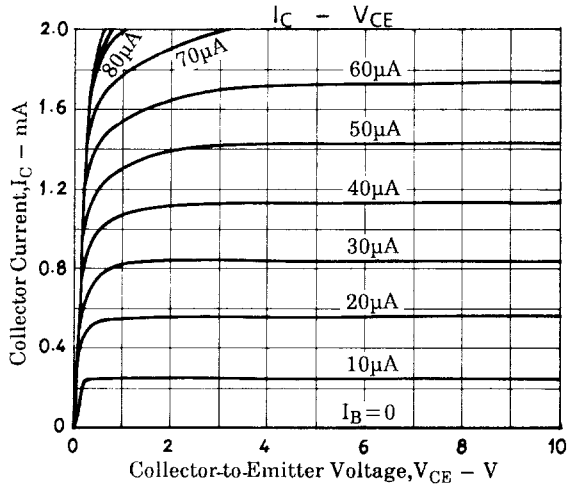
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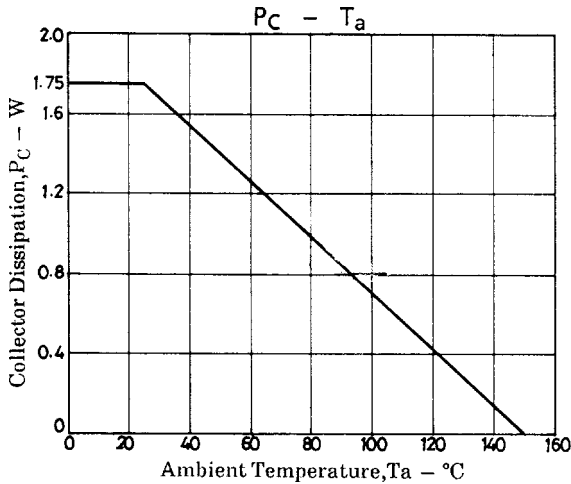
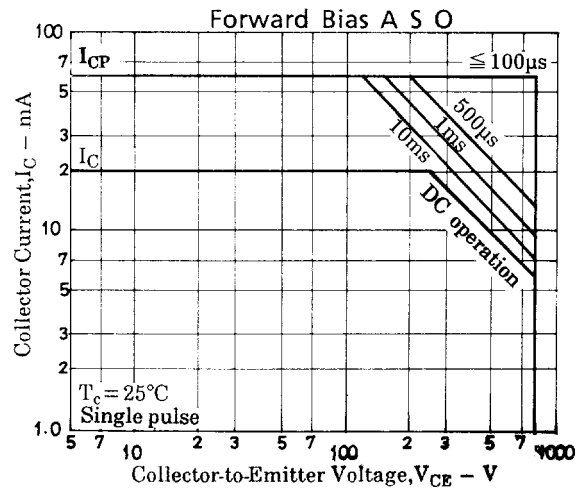
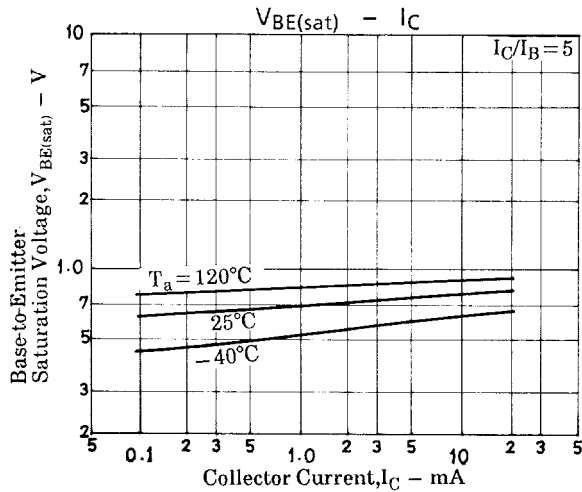
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# 2SC4572

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	800			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, R_{BE}=\infty$	800			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	7			V
Thermal Resistance	$R_{th(j-c)}$	Junction - Case			8.3	$^{\circ}C/w$





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