

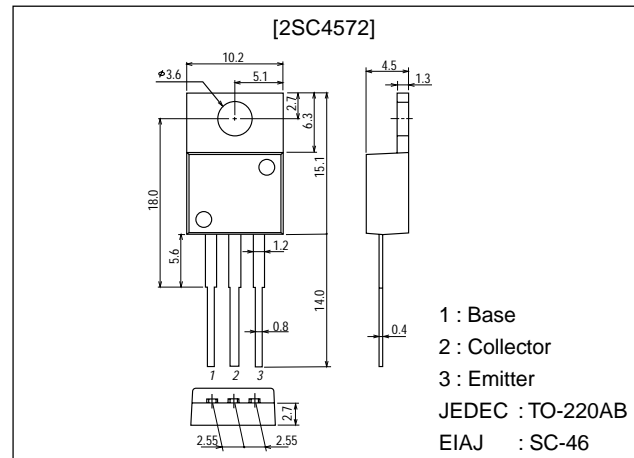
**2SC4572****800V/20mA Switching Applications****Features**

- 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	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=5V, I_C=0$			1	μA
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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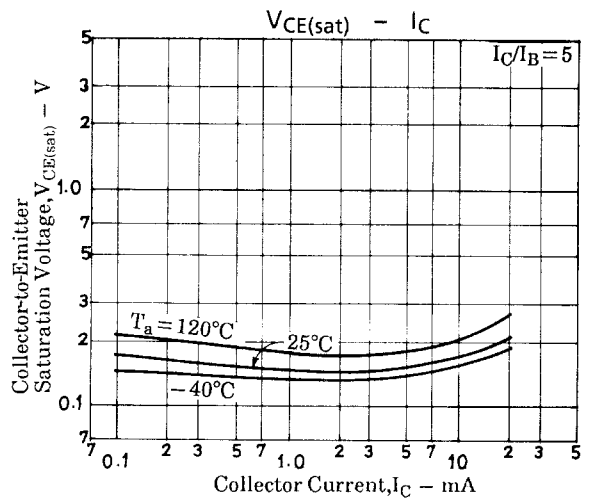
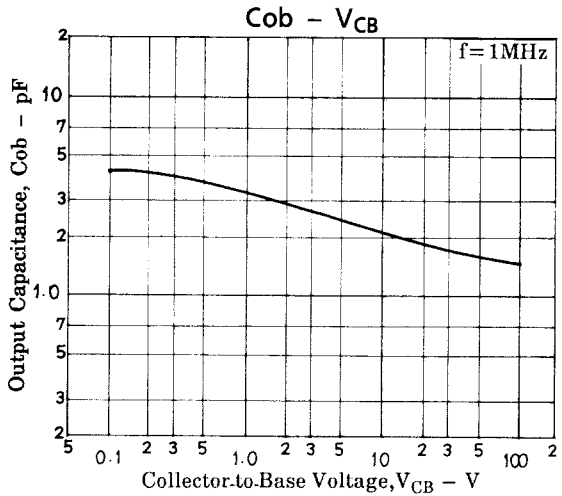
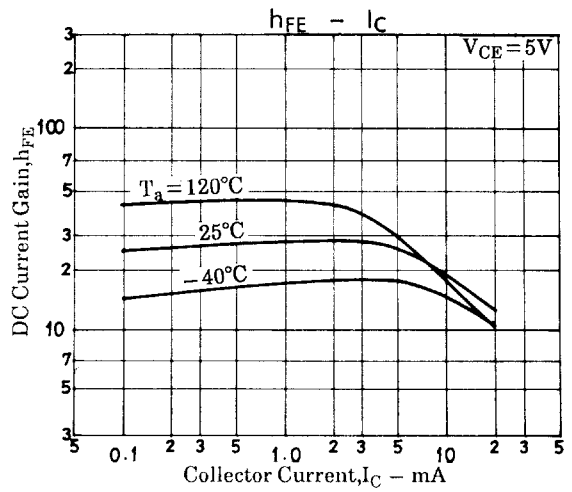
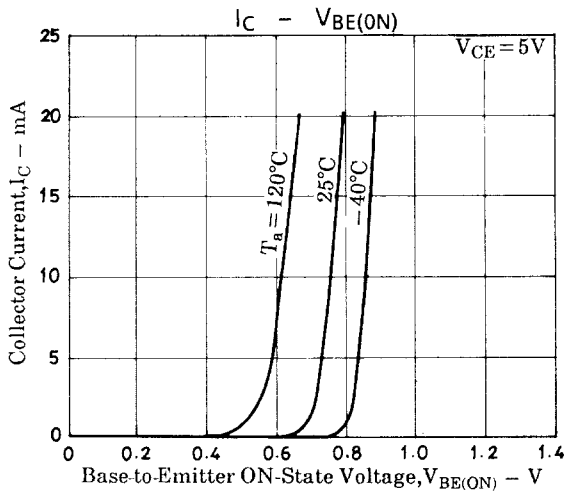
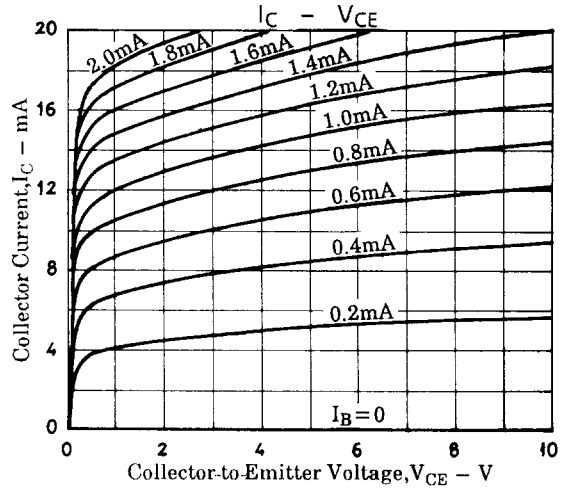
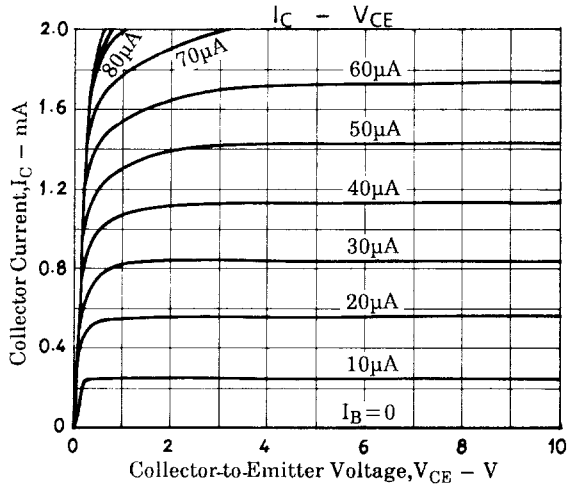
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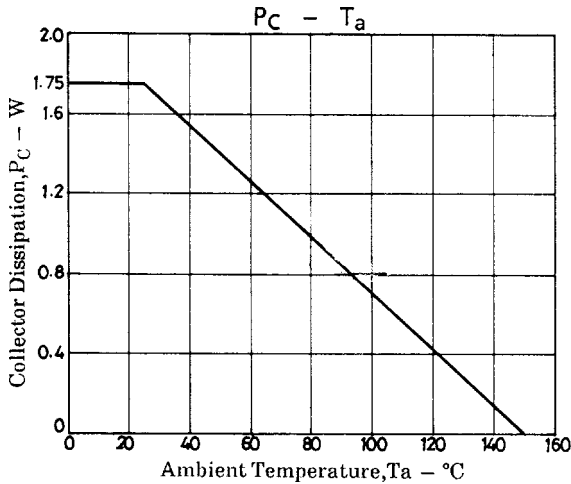
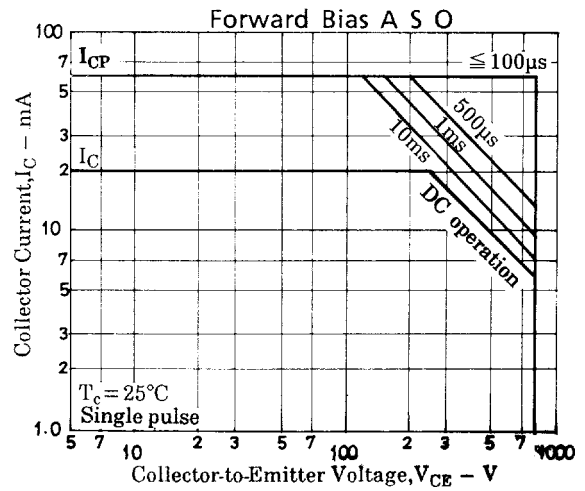
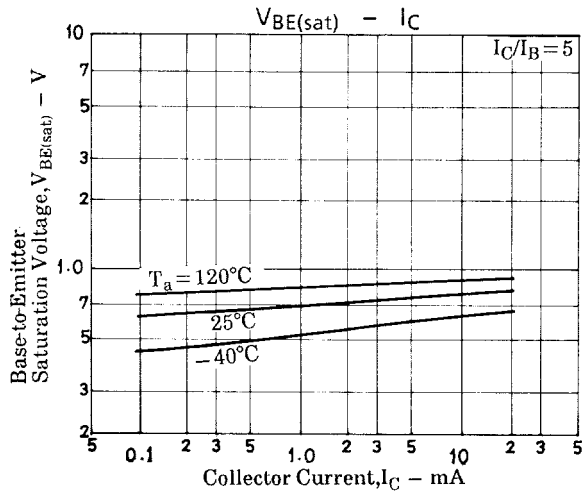
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2SC4572

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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