	No.3242	<h1 style="margin: 0;">2SC4578</h1> <p style="margin: 0;">NPN Triple Diffused Planar Silicon Transistor</p> <p style="margin: 0;">900V/50mA Switching Applications</p>
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Features

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

Absolute Maximum Ratings at Ta = 25°C

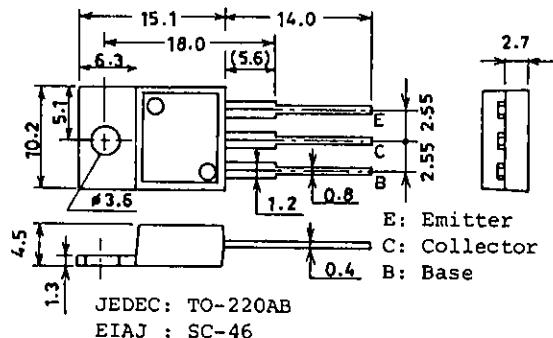
			unit
Collector-to-Base Voltage	V _{CB0}	1700	V
Collector-to-Emitter Voltage	V _{CEO}	900	V
Emitter-to-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	50	mA
Collector Current (Pulse)	I _{CP}	150	mA
Collector Dissipation	P _C	1.75	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

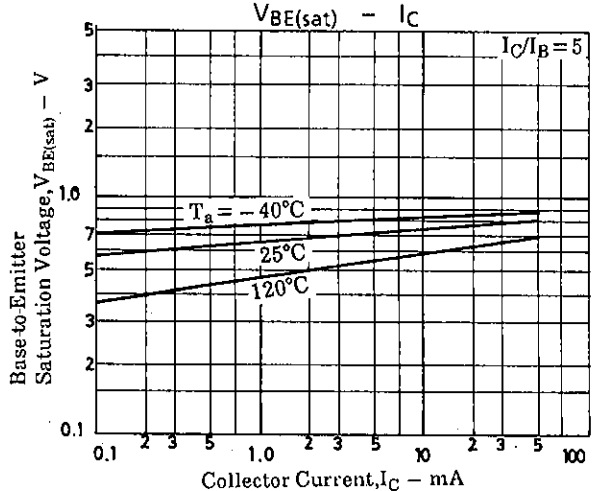
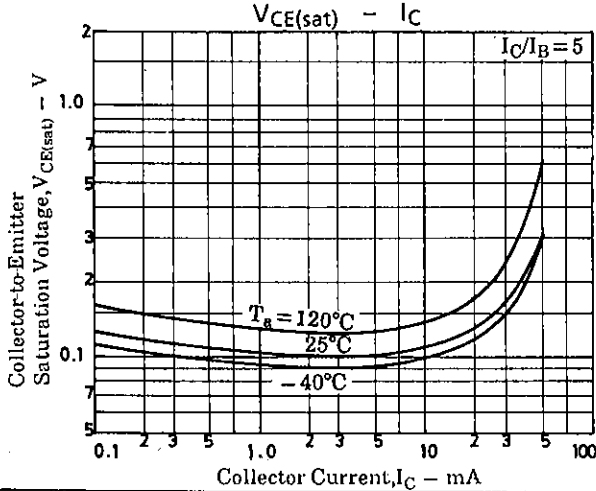
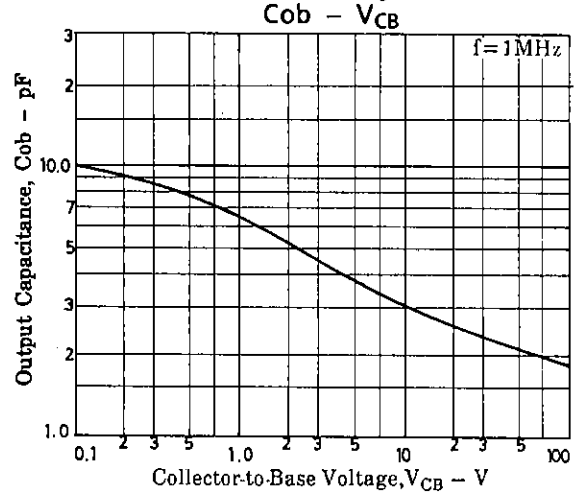
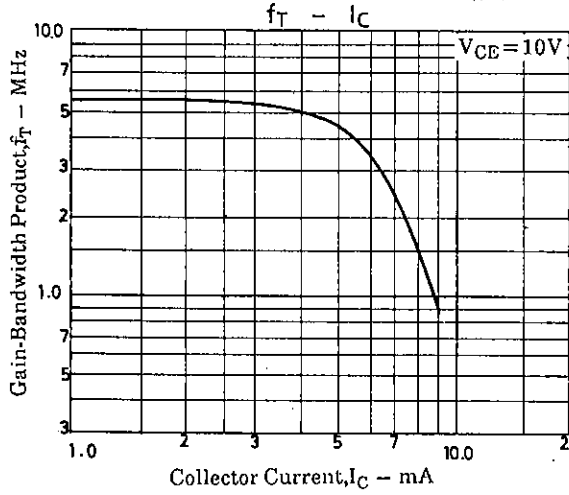
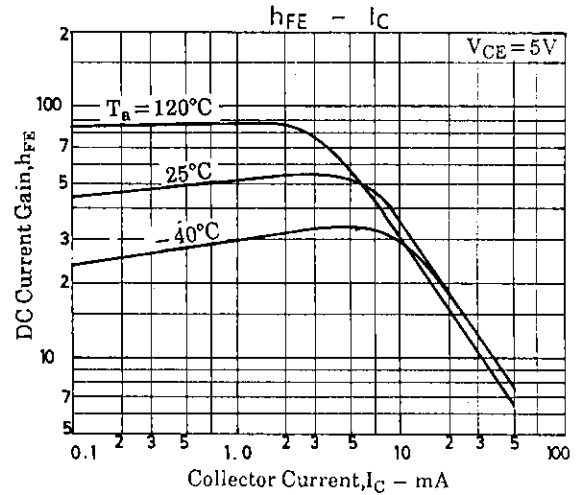
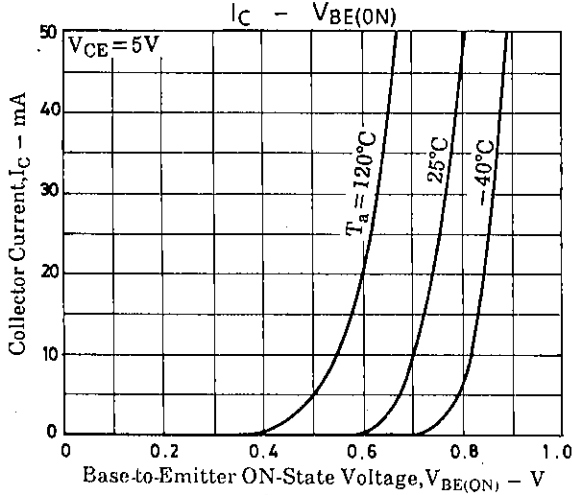
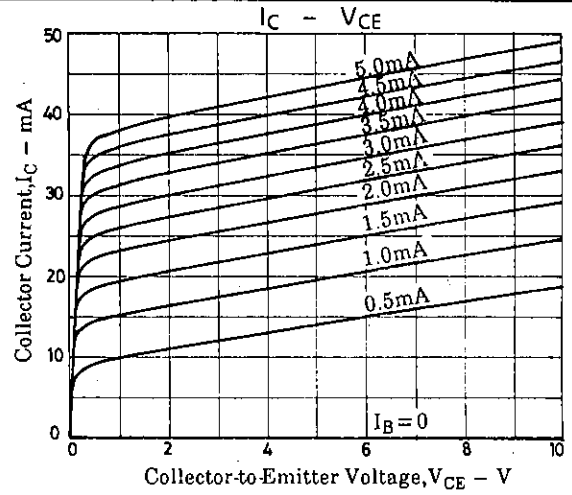
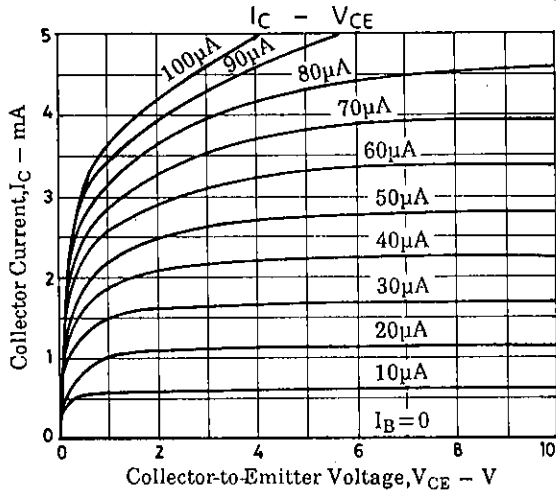
Electrical Characteristics at Ta = 25°C

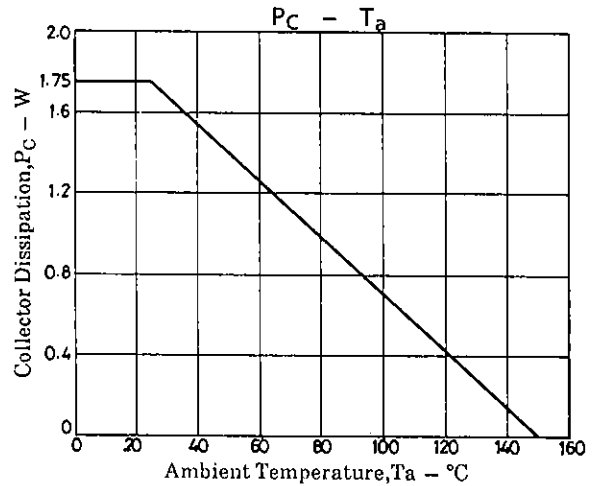
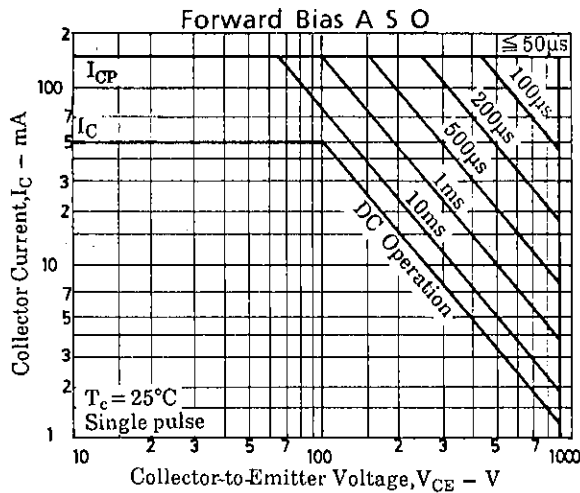
			min	typ	max	unit
Collector Cutoff Current	I _{CB0}	V _{CB} = 900V, I _E = 0			1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} = 4V, I _C = 0			1	μA
DC Current Gain	h _{FE}	V _{CE} = 5V, I _C = 2mA	20	50	120	
Gain-Bandwidth Product	f _T	V _{CE} = 10V, I _C = 2mA		6		MHz
Output Capacitance	C _{ob}	V _{CB} = 100V, f = 1MHz		2		pF
C-E Saturation Voltage	V _{CE(sat)}	I _C = 5mA, I _B = 1mA			5	V
B-E Saturation Voltage	V _{BE(sat)}	I _C = 5mA, I _B = 1mA			2	V
C-B Breakdown Voltage	V _{(BR)CBO}	I _C = 1mA, I _E = 0	1700			V
C-E Breakdown Voltage	V _{(BR)CEO}	I _C = 1mA, R _{BE} = ∞	900			V
E-B Breakdown Voltage	V _{(BR)EBO}	I _E = 1mA, I _C = 0		5		V

Package Dimensions 2010B

(unit: mm)







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