

2SC4303

2SC4303A

Absolute Maximum Ratings

Symbol	2SC4303	2SC4303A	Unit
V_{CB0}	1400	1500	V
V_{CE0}	800		V
V_{EB0}	7		V
I_C	6 (Pulse 12A)		A
I_B	3		A
P_C	80 ($T_{FL}=25^{\circ}\text{C}$)		W
T_J	150		$^{\circ}\text{C}$
T_{stg}	-55~+150		$^{\circ}\text{C}$

Silicon NPN Triple Diffused Planar

☆High Voltage Switching Transistor

Application Example :

Horizontal Deflection Output

● Outline Drawing 5 FM100

● Test Circuit ④

Electrical Characteristics

Symbol	Conditions	2SC4303	2SC4303A	Unit
I_{CBO}	$V_{CB}=1200\text{V}$	100max		μA
I_{EBO}	$V_{EB}=7\text{V}$	100max		μA
$V_{(BR)CEO}$	$I_C = 10\text{mA}$	800min		V
h_{FE}	$V_{CE}=4\text{V}, I_C=2.5\text{A}$	6min		
$V_{CE(sat)}$	$I_C = 2.5\text{A}, I_B=0.5\text{A}$	1.0max		V
$V_{BE(sat)}$	$I_C = 2.5\text{A}, I_B=0.5\text{A}$	1.5max		V
f_T	$V_{CE}=12\text{V}, I_E=-0.5\text{A}$	4typ		MHz

Typical Switching Characteristics (Emitter Common)

V_{CC} (V)	R_L (Ω)	I_C (A)	V_{BB1} (V)	V_{BB2} (V)	I_{B1} (A)	I_{B2} (A)	t_{on} (μs)	t_{stg} (μs)	t_f (μs)
250	100	2.5	10	-5	0.5	-1	—	4max	0.3max