



2SC5662 / 2SC4726 / 2SC4083 /  
2SC3838K / 2SC4043S

Transistors

● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions	
Collector-base breakdown voltage	BV <sub>CB0</sub>	20	–	–	V	I <sub>c</sub> = 10μA	
Collector-emitter breakdown voltage	BV <sub>CE0</sub>	11	–	–	V	I <sub>c</sub> = 1mA	
Emitter-base breakdown voltage	BV <sub>EB0</sub>	3	–	–	V	I <sub>E</sub> = 10μA	
Collector cutoff current	I <sub>CB0</sub>	–	–	0.5	μA	V <sub>CB</sub> = 10V	
Emitter cutoff current	I <sub>EB0</sub>	–	–	0.5	μA	V <sub>EB</sub> = 2V	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	–	–	0.5	V	I <sub>c</sub> /I <sub>B</sub> = 10mA/5mA	
DC current transfer ratio	2SC5662, 2SC4726, 2SC4083, 2SC3838K	h <sub>FE</sub>	56	–	180	–	V <sub>CE</sub> /I <sub>c</sub> = 10V/5mA
	2SC4043S		82	–	180		
Transition frequency	f <sub>T</sub>	1.4	3.2	–	GHz	V <sub>CE</sub> = 10V, I <sub>E</sub> = 10mA, f = 500MHz	
Output capacitance	C <sub>ob</sub>	–	0.8	1.5	pF	V <sub>CB</sub> = 10V, I <sub>E</sub> = 0A, f = 1MHz	
Collector-base time constant	τ <sub>bb</sub> ·C <sub>c</sub>	–	4	12	ps	V <sub>CB</sub> = 10V, I <sub>c</sub> = 10mA, f = 31.8MHz	
Noise factor	NF	–	3.5	–	dB	V <sub>CE</sub> = 6V, I <sub>c</sub> = 2mA, f = 500MHz, R <sub>g</sub> = 50Ω	