

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

Transistors

● Absolute maximum ratings (Ta = 25°C)

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