

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

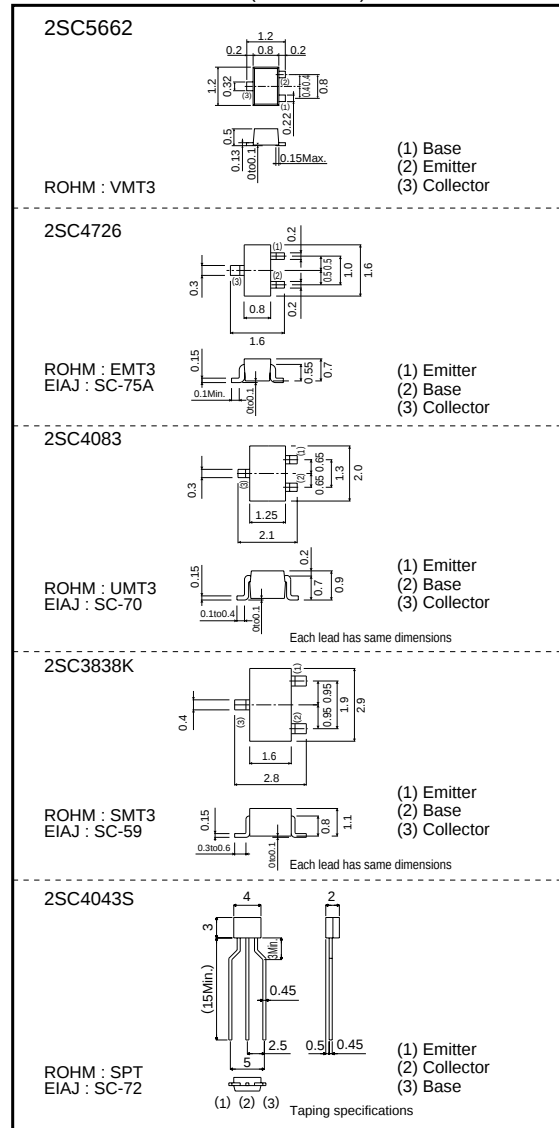
● **Absolute maximum ratings** (Ta=25°C)

Parameter		Symbol	Limits	Unit
Collector-base voltage		V _{CB0}	20	V
Collector-emitter voltage		V _{CE0}	11	V
Emitter-base voltage		V _{EB0}	3	V
Collector current		I _c	50	mA
Collector power dissipation	2SC5662, 2SC4726	P _c	0.15	W
	2SC4083, 2SC3838K		0.2	
	2SC4043S		0.3	
Junction temperature		T _j	150	°C
Storage temperature		T _{stg}	-55~+150	°C

● Packaging specifications and h_{FE}

Type	2SC5662	2SC4726	2SC4083	2SC3838K	2SC4043S
Package	VMT3	EMT3	UMT3	SMT3	SPT
f _{HE}	NP	NP	NP	NP	P
Marking	AD	AD	1D	AD	—
Code	T2L	TL	T106	T146	TP
Basic ordering unit (pieces)	8000	3000	3000	3000	5000

●External dimensions (Units : mm)



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Transistors

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BV _{CE0}	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 _{CE0}	—	—	0.5	μA	V _{CE} = 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 _E = 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 _{CE} = 10V, I _E = 0A, f = 1MHz
Collector-base time constant	τ _{cb} ·C _C	—	4	12	ps	V _{CE} = 10V, I _C = 10mA, f = 31.8MHz
Noise factor	NF	—	3.5	—	dB	V _{CE} = 6V, I _C = 2mA, f = 500MHz, R _g = 50Ω