

2SC4695

Low-Frequency General-Purpose Amplifier, Muting Applications

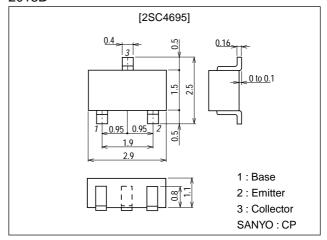
Features

- · Adoption of FBET process.
- · High DC current gain.
- · High V_{EBO} ($V_{EBO} \ge 25V$).
- \cdot High reverse h_{FE} (150 typ).
- · Small ON resistance [Ron= 1Ω ($I_B=5mA$)].
- · Very small-sized package permitting 2SC4695applied sets to be made small and slim.

Package Dimensions

unit:mm

2018B



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		50	V
Collector-to-Emitter Voltage	VCEO		20	V
Emitter-to-Base Voltage	V _{EBO}		25	V
Collector Current	IC		500	mA
Collector Current (Pulse)	I _{CP}		800	mA
Base Current	Ι _Β		100	mA
Collector Dissipation	PC		250	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

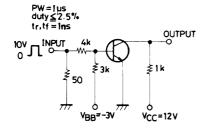
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Office
Collector Cutoff Current	I _{CBO}	V _{CB} =40V, I _E =0			0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V_{EB} =20V, I_{C} =0			0.1	μA
DC Current Gain	hFE	$V_{CE}=5V$, $I_{C}=10mA$	300		1200	
Gain-Bandwidth Product	fT	V _{CE} =10V, I _C =10mA		250		MHz
Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz		3.6		pF

Marking:WT

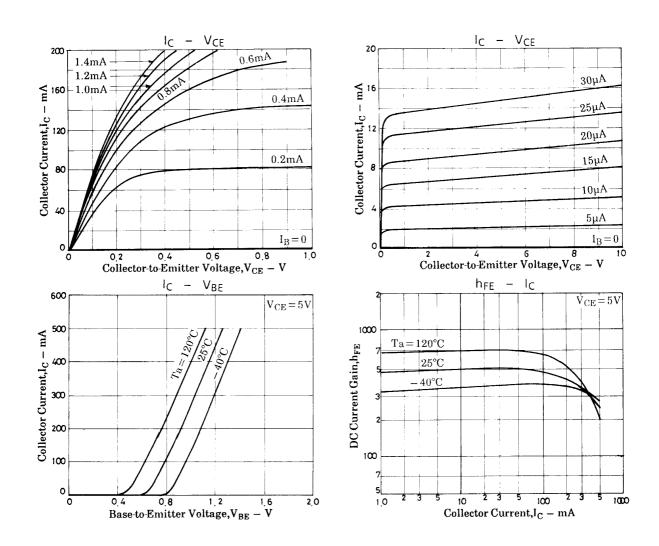
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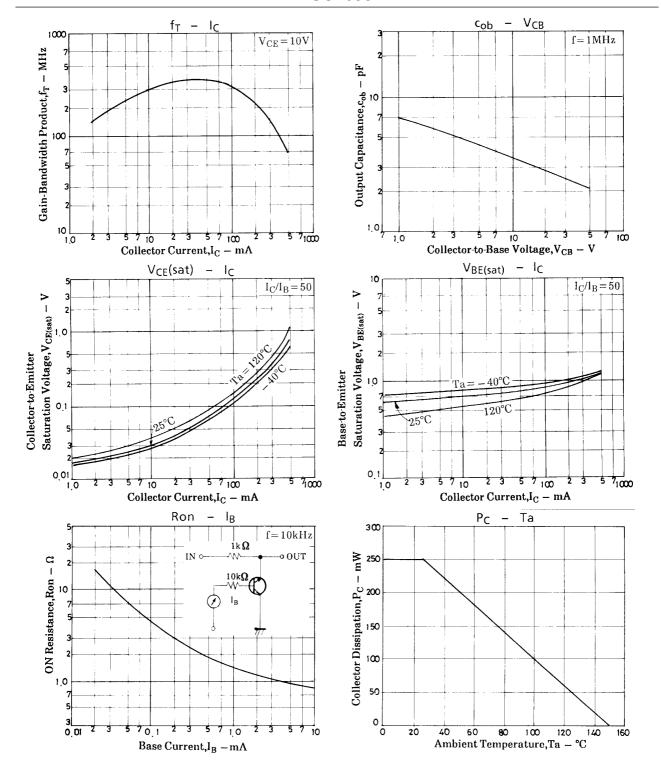
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	O'III
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =100mA, I _B =2mA		0.12	0.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =100mA, I _B =2mA		0.85	1.2	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =10μA, I _E =0	50			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =1mA, R _{BE} =∞	20			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =10μA, I _C =0	25			V
Turn-ON Time	ton	See specified Test Circuit.		135		ns
Storage Time	t _{stg}	See specified Test Circuit.		450		ns
Fall Time	t _f	See specified Test Circuit.		100		ns

Switching Time Test Circuit



Unit (resistance : Ω)





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