



Muting Circuit Applications

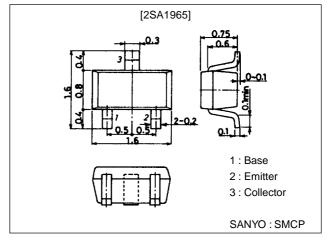
Features

- · Very small-sized package permitting 2SA1965applied sets to be made small and slim.
- · Small output capacitance.
- · Low collectot-to-emitter saturation voltage.
- · Small ON resistance.

Package Dimensions

unit:mm

2106A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		-15	V
Collector-to-Emitter Voltage	V _{CEO}		-10	V
Emitter-to-Base Voltage	V _{EBO}		-5	V
Collector Current	IС		-100	mA
Collector Current (Pulse)	I _{CP}		-200	mA
Base Current	Ι _Β		-20	mA
Collector Dissipation	PC		150	mW
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

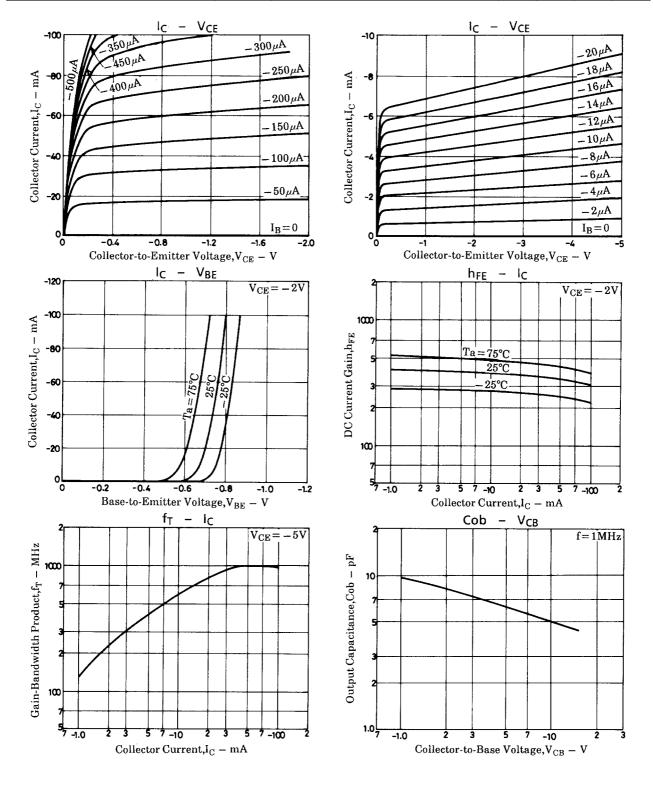
Electrical Characteristics at Ta = 25°C

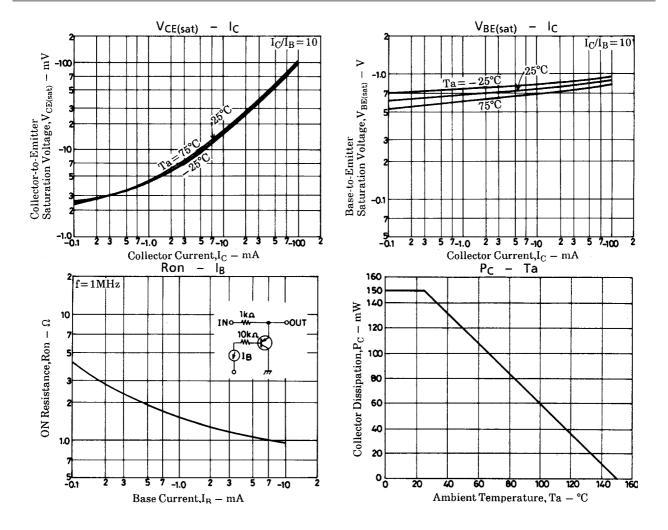
Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =-12V, I _E =0			-0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =-4V, I _C =0			-0.1	μΑ
DC Current Gain	hFE	V _{CE} =-2V, I _C =-5mA	200		600	
Gain-Bandwidth Product	fT	V _{CE} =-5V, I _C =-10mA		600		MHz
Output Capacitance	C _{ob}	V _{CB} =-10V, f=1MHz		5.0		pF
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =-10mA, I _B =-1mA		-16	-35	mV
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-10mA, I _B =-1mA		-0.75	-1.1	V

Marking: KA

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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =-10μA, I _E =0	-15			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =-1mA, R _{BE} =∞	-10			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =-10μA, I _C =0	- 5			V
ON Resistance	Ron	I _B =–3mA, f=1MHz		1.2		Ω





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