Switching Applications (with Bias Resistance)

Applications

. Switching circuit, inverter circuit, interface circuit, driver circuit

- . On-chip bias resistance (R1=2.2kohms, R2=co)
- . Small-sized package (CP)

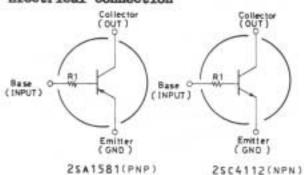
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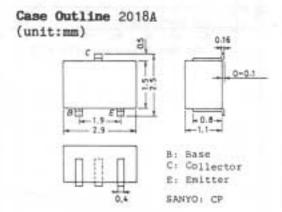
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Absolute Maximum Ratings at Ta=	25°C		unit
Collector to Base Voltage	V _{CBO}	(-)50	V
Collector to Emitter Voltage	V _{CEO}	(-)50	V
Emitter to Base Voltage	VEBO	(-)5	V
Collector Current	IC	(-)100	mA
Peak Collector Current	i _{op}	(-)200	mA
Collector Dissipation	PC	200	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55 to +150	°C

Electrical Characteristics	at Ta=25		min	typ ma	x unit
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)40V,I _E =0		(-)0.	1 uA
Emitter Cutoff Current	IEBO	V _{EB} =(-)5V,I _C =0		(-)0.	1 u.i
DC Current Gain	hFE	V _{CR} =(-)5V, I _C =(-)10mA	100		
Gain-Bandwidth Product	fT	V _{CE} =(-)10V, I _C =(-)5mA		250 (200)	MHI
Output Capacitance	Cob	V _{CB} =(-)10V,f=1MHz		3.5	pF
C-E Saturation Voltage	VCE(sat)	I _C =(-)10mA,I _R =(-)0.5mA		(-)0.1(-)0.	3 V
C-B Breakdown Voltage	V(BR)CBO		(-)50	1.002.030.600	V
C-E Breakdown Voltage	V(BR)CEO		(-)50		v
Input OFF-State Voltage	VI(off)	VCE=(-)5V,IC=(-)100uA		-)0.55(-)0.	8 V
Input ON-State Voltage	VI(on)	VCE=(-)0.2V,IC=(-)10mA	(-)0.6	(-)0.8(-)1.	
Input Resistance	RT		1.5	그 ' 전성, ' 전보면 이 바 기위적이다	kohm

Marking on device 2SA1581: VL, 2SC4112:DT

Electrical Connection





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