

2SC3063

Silicon NPN triple diffusion planar type

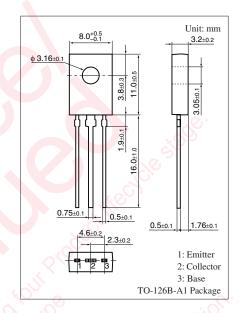
For TV video output amplification

■ Features

- ullet High collector-emitter voltage (Base open) V_{CEO}
- Small collector output capacitance (Common base, input open circuited) Coh
- TO-126B package which requires no insulation plate for installation to the heat sink

■ Absolute Maximum Ratings $T_a = 25^{\circ}C$

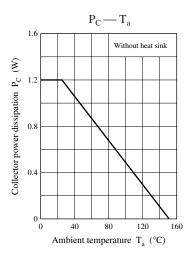
Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V_{CBO}	300	V
Collector-emitter voltage (Base open)	V_{CEO}	300	V
Emitter-base voltage (Collector open)	V_{EBO}	7	V
Collector current	I_{C}	100	mA
Peak collector current	I_{CP}	200	mA
Collector power dissipation	P _C	1.2	W
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

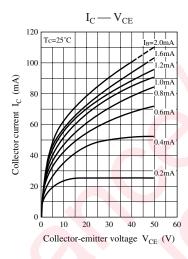


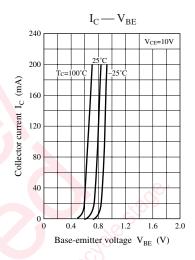
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

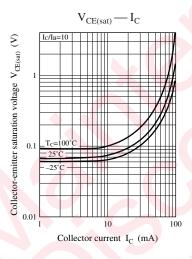
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_C = 10 \mu\text{A}, I_E = 0$	300	3		V
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = 0.1 \text{ mA}, I_B = 0$	300	0		V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \mu\text{A}, I_C = 0$	7			V
Base-emitter voltage	V _{BE}	$V_{CE} = 10 \text{ V}, I_{C} = 30 \text{ mA}$			1.2	V
Forward current transfer ratio	h _{FE}	$V_{CE} = 50 \text{ V}, I_{C} = 5 \text{ mA}$	50		250	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = 30 \text{ mA}, I_B = 3 \text{ mA}$			1.5	V
Transition frequency	f_T	$V_{CB} = 30 \text{ V}, I_E = -20 \text{ mA}, f = 200 \text{ MHz}$	70	140		MHz
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = 30 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2.4		pF

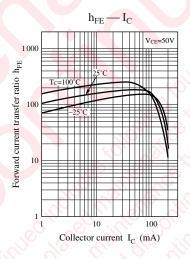
Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

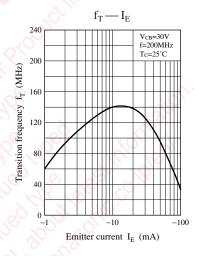


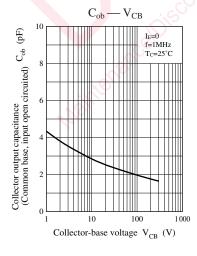


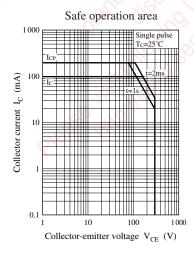












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