

# 2SC3063

## Silicon NPN triple diffusion planar type

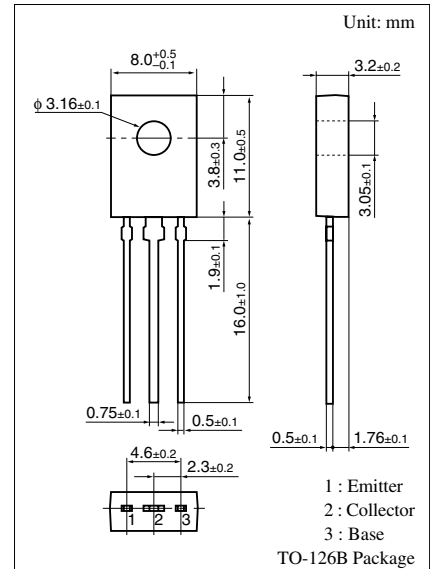
For TV video output amplification

### ■ Features

- High collector to emitter voltage  $V_{CEO}$
- Small collector output capacitance  $C_{ob}$
- TO-126B package which requires no insulation plate for installation to the heat sink

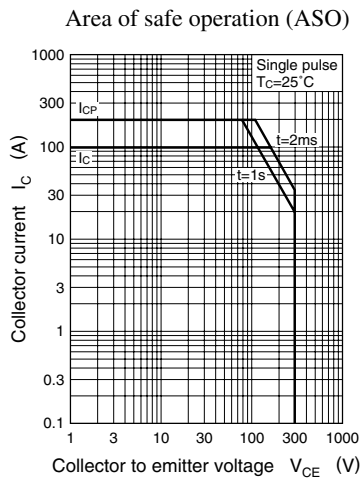
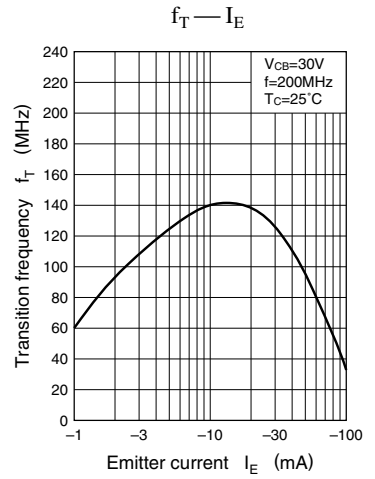
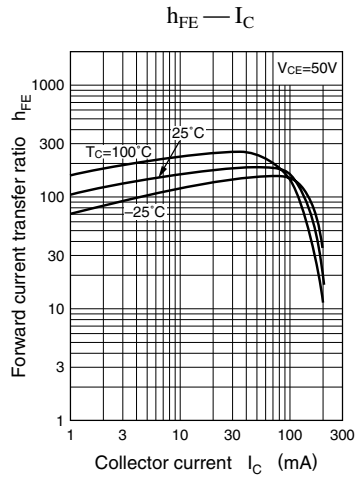
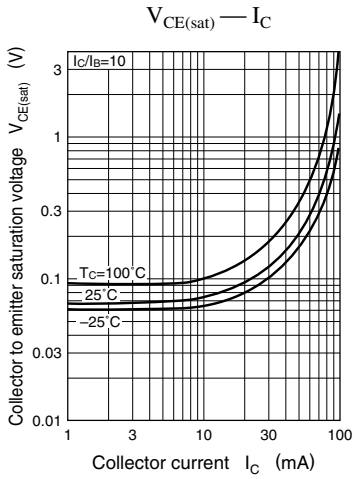
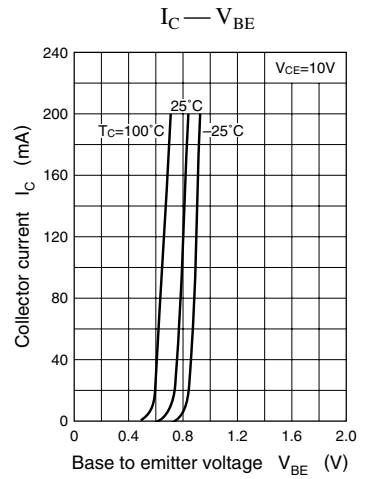
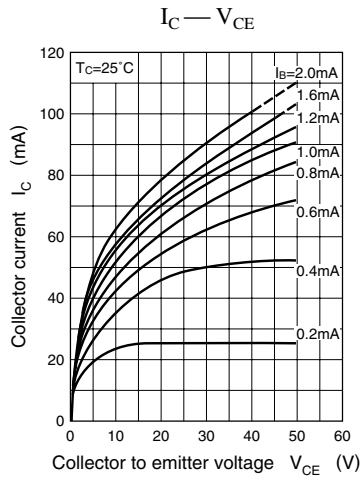
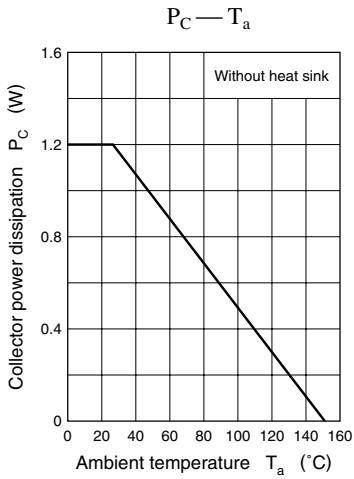
### ■ Absolute Maximum Ratings $T_C = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector to base voltage	$V_{CBO}$	300	V
Collector to emitter voltage	$V_{CEO}$	300	V
Emitter to base voltage	$V_{EBO}$	7	V
Peak collector current	$I_{CP}$	200	mA
Collector current	$I_C$	100	mA
Collector power dissipation	$P_C$	1.2	W
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ\text{C}$



### ■ Electrical Characteristics $T_C = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector to base voltage	$V_{CBO}$	$I_C = 10 \mu\text{A}$ , $I_E = 0$	300			V
Collector to emitter voltage	$V_{CEO}$	$I_C = 0.1 \text{ mA}$ , $I_B = 0$	300			V
Emitter to base voltage	$V_{EBO}$	$I_E = 10 \mu\text{A}$ , $I_C = 0$	7			V
Forward current transfer ratio	$h_{FE}$	$V_{CE} = 50 \text{ V}$ , $I_C = 5 \text{ mA}$	50		250	
Base to emitter voltage	$V_{BE}$	$V_{CE} = 10 \text{ V}$ , $I_C = 30 \text{ mA}$			1.2	V
Collector to 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	$C_{ob}$	$V_{CB} = 30 \text{ V}$ , $I_E = 0$ , $f = 1 \text{ MHz}$		2.4		pF



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